DAILY METAL REPORTER

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PROPOSE COPPER IMPORT TAX OF 4c POUND, PERIL POINT OF 32c

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BRITISH METAL MARKETS

By L. H. TARRING London, England

U. S. METAL IMPORT DUTIES
WASHINGTON REPORT
METAL STATISTICS

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Two LINE Editorials

Senator Goldwater's idea seems to be that "Modern Republicanism" is just another name for extravagant Republicanism.

An editor says: "It's hard to tell which side Tito is on." A good guess would be that he's on Tito's side.

Cutting down on the mail deliveries might not be such a bad idea if the postman could be persuaded not to deliver all those letters you don't want to get.

A Harvard professor has stated that Texas is suffering from "a subculture continuum," and it is predicted that Texans won't like this if they ever find out what it means.

An astronomer tells us that a comet strikes the earth only once in 80,000,000 years; but he fails to tell us whether one has struck within the last 79,000,000 years, so we don't know when it's time to start worrying about it.

Every Cabinet member agrees that the budget should be drastically cut but, of course, without reducing the appropriations for his own department.

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September 17, 1957

OMESTIC copper producers are expected to get in line behind lead and zinc mining firms in a plea for higher tariffs. At this writing, an Emergency Lead and Zinc Committee headed by Charles E. Schwab, expects to file a petition with the Tariff Commission by October 1. Unless copper falls below 24 cents a pound, this segment of the metal industry will have to wait for Congress to convene in January before it can appeal for increased tariff protection.

Both House and Senate committees had debated for some time about providing a measure of relief for the domestic lead and zinc industries by the imposition of a sliding scale tax on imports of such metals. The Senate Finance

Committee had even approved raising the import tariff for each metal to a flat 3.00c a pound. But the problem of helping the domestic mining industry was tossed back into the lap of the Tariff Commission by President Eisenhower. The President at a press conference on August 21 said he believed that in the long run the best way to handle industry problems resulting from import troubles is through the Tariff Commission.

"Escape Clause"

The President is believed to have taken his cue from a suggestion that was made the day before by Senator Arthur V. Watkins (R., Utah) that the lead-zinc industry begin immediately proceedings before the commission for relief under the "escape clause" of the Trade Agreements Act. Even if the Emergency Lead and Zinc Committee files its petition by October 1, no decision by the Tariff Commission is expected before December. Any commission recommendations would then go to the White House for action where favorable consideration is anticipated.

In the opinion of legislators, who have been advocating a sliding scale tax on foreign imports, the domestic mining industry is likely to get tariff relief before 1957 is over. It is also their view that the industry will probably get the maximum relief that is permitted under Section 7-A of the Trade Agreements Act which empowers the Tariff Commission to recommend a 50 per cent increase in the import duties that prevailed on January 1, 1945.

50% Tariff Hike Possible

The zinc import duty at that time was 1.40c a pound on slab zinc and 1.70c a pound on pig lead. The import duty on zinc ore and concentrates and on lead ore and concentrates was 1.20c (content). If the Tariff Commission makes the same recommendation to the President that it did in 1954.

namely a 50 per cent hike in the import duties, the new duty on slab zinc would be 2.10c a pound and on pig lead 2.55c a pound. The import duty on the concentrates could be 1.80c on each.

The current duty on pig lead is 1.0625c a pound and that on slab zinc 0.70c a pound.

Informed quarters here pointed out that not only the President but every Government agency, including the State Department, favors greater protection for the domestic lead and zinc industry in the form of higher import duty. Hence the Tariff Commission's recommendations are not likely to be turned down as they were in 1954.

To Seek Import Quotas

Chairman Schwab of the Emergency Lead and Zinc Committee said his group would also seek import quotas and any other relief possible under the law. Concerning import quotas, Mr. Schwab said this would be a new development for the industry. The principal countries affected would be Peru, Australia, Mexico and Canada.

Plan 30c Copper "Floor"

Senator James E. Murray (D., Mont.) announced early this month he is drafting a bill intended to place a "floor" of 30.00c a pound under copper prices. The measure will be presented to Congress when it reconvenes in January. Under current law, should the average copper price for any calendar month go below 24.00c a pound a 2.00c a pound duty would prevail.

Industry's thoughts on the subject were voiced by J. B. Pullen, assistant general manager of Phelps Dodge Corp., at the American Mining Congress in Salt Lake City, Utah, on September 10. Mr. Pullen recommended a boost in the excise tax plus an increase in the peril-point price below which

the excise tax would become effective. He suggested a 32.00c peril point and a 4.00c a pound excise tax on imported copper.

The present situation is alarming and the future outlook for the domestic copper industry depends on the satisfactory solution of the present and near-term problems confronting the producers, Mr. Pullen said. (Mr. Pullen's address before the American Mining Congress appears in this issue on Page 7.)

Mineral Problems Discussed

The Administration's views on copper, chrome and tungsten industry problems were made known by John G. Liebert, special assistant to the Interior Department's Assistant Secretary for Mineral Resources, before the minerals subcommittee of the Senate Interior Committee on August 28.

Asked what could be done to aid the copper industry, Mr. Liebert replied that Congress could reimpose the tariff of 1.80c a pound which had been suspended. He said it was the responsibility of the copper industry to go to the Tariff Commission for a hearing if it desired relief from that source.

Told by members of the chrome industry that the \$21 a ton bonus figure for chrome was unrealistic, Mr. Liebert said that if, after a thorough study, the projected level was found to be inadequate, it could be revised upward. He said the Government's program was based on 50,000 tons a year although only about 30,000 to 35,000 tons were currently being produced annually by 50 producers.

Commenting on the refusal of Congress to appropriate funds for tungset number and the country have a commitment to the tungsten miners that should be kept. He termed the current \$13 a ton price for tungsten very low and blamed overproduction brought about by buying for the stockpile as well as filling domestic needs. He said the Government has \$50,000,000 in long-range contracts for stockpiling delivery extending to 1959 at prices averaging in excess of \$50 a ton.

Tungsten Output Costs

The Senate, on the same day, passed a resolution ordering the Tariff Commission to investigate differences between domestic and foreign costs of producing tungsten ore and concentrates. The measure, which does not require House action, directs the commission to report its findings not later than next March 1.

In another move, Senator Gordon Allott (R., Colo.) introduced a bill to revive the expiring program of buying tungsten for the defense stockpile. The bill would authorize purchase at \$55 a ton of up to 250,000 ton units that already had been produced with the understanding the purchase program would be continued. It also would authorize a long-range incentive program to assist small producers, in-(Continued on Page 13)

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HIGHER DOMESTIC COPPER COSTS REQUIRE BOOST IN U. S. IMPORT TAX TO 4c WITH PERIL POINT OF 32c

Outlook is Fairly Bright If Proper Measures Can Be Taken to Stabilize Conditions and Prevent Permanent Damage to Large Segment of Industry

By J. B. PULLEN, Assistant General Manager, Phelps Dodge Corporation

NY PREDICTION as to the future outlook for copper will require a very careful appraisal of the present situation. The end of 1956 saw quite a change in the copper situation; a period of unparalleled prosperity in the industry came to an abrupt end. A prolonged shortage of the metal gave way to a pronounced surplus and prices started to tumble. During the year 1956 the Free World production of copper amounted to 3,015,000 tons against consumption of 2,783,000 tons, or an excess of production over consumption of 232,000 tons. Also during the year expanded facilities of operating mines and newly developed mines came into production, increasing productive capacity of the Free World to approximately 3,500,-000 tons per annum.

During the early part of 1957 some companies found it necessary to curtail production and some of the high-cost producers were forced to suspend operations entirely. However, despite these cutbacks, production rates for the first six months of 1957 averaged slightly higher than the rate for 1956 and stocks of refined copper at the end of July were in excess of 430,000 tons—the highest since 1939.

From April 1956 to July 1957 world prices for copper dropped from 55 cents a pound to 27 cents a pound, and the domestic producers' price fell from 46 cents to 28½ cents.

Free World Capacity

There are projects now in progress and other projects approved that will further expand the Free World productive capacity to approximately 4,-150,000 tons by the end of 1961. Thus, the industry is faced with the situation where the productive capacity is clearly in excess of demand, and a price situation at present that will not provide for the economic operation of

a large segment of the American production.

The price situation existing in 1956 was largely due to artificial supports which began in 1954. In 1954 largescale strikes closed down several important mines as well as smelters and refineries in the United States, Chile and elsewhere. This situation was further aggravated by a general upswing in business, both in this country and abroad. These two forces, opposing each other, continued throughout 1955 and as a result prices soared in the domestic market from 30 cents a pound in 1954 to over 46 cents a pound in the early part of 1956, and the foreign price reached a high of 55 cents during the same period.

Since April of 1956 the reverse has been true. The industry has been almost free of strikes and the business of key consuming industries such as automobiles, residential building, appliances and utilities has slackened, which, combined with expanded capacity, caused prices to take a precipitous drop as the old law of supply and demand came into play.

Use of Substitutes

The short supply of the metal existing from 1954 to the early part of 1956, together with the rising prices, caused some concern in the industry over the use of substitute materials. It is difficult to determine just how serious this has been. The Department of Commerce issued a report in the Spring of 1957 covering 25 copper and aluminum consuming industries for the period 1947 to 1954. This report summarized the situation as follows:

"During the seven-year span markets for aluminum continued to expand in some cases along with copper but at greater rates and in other cases as a substitute for copper. In two cases, aluminum slipped back while copper uses forged ahead. In three cases both metals suffered losses in consumption. With the gap between aluminum prices and copper prices narrowed to a small margin at the present time the uses of copper versus aluminum will depend more on the innate merits of the two metals for the particular application than on the sales price of the respective metals."

Statistics covering total consumption of copper for the above period indicate that copper maintained its average normal growth trend during this time. Total consumption figures since 1954 do not indicate that the uses of copper are diminishing; so it is concluded that fear of competition from substitutes is somewhat exaggerated.

If proper measures can be taken to stabilize the present and near term situation so as to prevent permanent damage to a large segment of the industry, then the long term outlook is fairly bright. The Department of Interior has recently issued a report in which the total world reserves of copper are estimated at 160,000,000 tons of metal. Of this total 144,000,000 tons are located in the Free World of which 25,000,000 tons are in the United States. Such reserves and the present and planned production capacity should provide an ample supply for many years to come.

Criticism of Expansion

There has been some criticism of the industry for making and planning expansions at the present time. This criticism, I think, is unjustified. It cannot be expected that any major expansion in production capacity will be immediately matched by consumption. The time and money involved to bring a new ore body into production necessitates that such plans be based on long range projections rather than on the demands of any particular year.

Copper is a basic and in some cases an irreplaceable raw material for a great number of uses and all indications point to a normal and continuing growth in consumption of about 4 per cent per year.

The near term outlook, particularly

Address delivered before American Mining Congress, Salt Lake City, Utah, September 10, 1957.

for the American producers, is a matter that deserves serious consideration.

Production of copper in the United States accounts for about 42 per cent of the Free World's production. Consumption of copper in the United States is at present about 51 per cent of that in the Free World.

Due to the fact that productive capacity is so much in excess of actual demands and that stockpile requirements, both in the United States and in Britain, have largely been satisfied, the American producers can expect keen competition from all sources for the large domestic market.

Mining Costs Up

It is not generally known how much underground mining costs have increased in the United States during the last 20 years. In some Arizona operations costs of producing copper have increased about 500 per cent. Roy Glover, chairman of the board of Anaconda in a statement made in March of this year, also found this same situation to exist. In the same statement Glover also estimated that about one-third of the entire production of the United States was produced at a cost in excess of 25 cents per pound.

In order to determine where the American producers stand in relation to their foreign competitors the following statistics covering ore reserves and wage rates were developed:

Partial
Ore Reserves
United States ...
Chile Per cent Copper 0.925 Tons Ore 2,100,000,000 3,500,000,000 800,000,000

In Canada a large percentage of the copper produced is from complex ores such as nickel-copper and zinccopper, so that a true comparison of grades is not possible.

A report to the United States Senate Committee on Interior and Insular Affairs in July of 1955 gave the following information on foreign wage scales:

Equivalent U. S. Currency

\$3.08 per day \$4.46 per day \$6.55 per week \$13.04 per week Colombia Miners—1953 Peru Miners—June 1953 Mexico Miners—1954

A report from the Department of Labor of July 1957 gave the following data of foreign wage scales:

Canada—
All Mining—1957
Northern Rhodesia—1954
Native Labor—
Underground

1057 \$ 1.89 per hour \$16.76 per month \$18.94 per month

In March of 1957 the average hourly wages paid to Arizona miners amounted to \$2.43.

It is admitted that these figures do not represent a true comparison of actual labor costs; however, the two tabulations do indicate that the American producers are mining the lowest grade ore and paying the highest wages in the world.

A large percentage of the newly expanded capacity was solicited by the United States Government for security reasons. In a report by the United States Senate Committee on Interior and Insular Affairs in July of 1954 it was stated that projects developed under the Defense Production Act would add 250,000 tons of copper per annum to the American production. It is interesting to note that this expansion in production is just about the same figure as the surplus production for 1956.

To summarize the present and near term outlook for the American pro-

(1) Productive capacity is in excess of demand;

(2) Competition for the domestic market from low-cost foreign producers is serious;

(3) Most of the American expanded facilities were solicited by the United States Government for secur-

(4) Present prices will not permit the economic operation of a large portion of the United States industry;

(5) The domestic copper producer is now entering a cycle similar to that facing the domestic lead-zinc industry. This industry is in serious difficulties due to foreign competi-

The question now arises as to what consideration should be given to the domestic copper producer and what measures, if any, should be taken to protect this industry.

The first consideration should be that if it was necessary to expand capacity for national security reasons, then national security reasons demand that these operations be kept going.

The first consideration should be that copper provides the economic lifeblood for all the Western Mountain States; a cessation or serious curtailment of operations would create a serious economic problem in this

To keep this industry going, adequate import protection is necessary. This can be accomplished by raising the price peril point when an excise

tax is to be applied. This should be high enough to cover American cost of production and a reasonable profit. The excise tax should be raised to reflect the difference in cost between United States and foreign production. The question now arises as to just what the figures should be.

In 1951 when the peril point of 24 cents per pound was established, it was agreed to only after a long and exhaustive study. The 24-cent price apparently satisfied all concernedthe producer, the Government and the consumer-so I think it is safe to assume that the base of 24 cents at that time was fair and equitable. The Arizona Department of Mineral Resources in April of this year issued a report covering an exhaustive study of this problem. The findings and recommendations of this report are summarized as follows:

Apr. 1951 to Mar. 1957	Per Cen
Hourly wages (Arizona miners)	-
increased	42.1
Supply costs increased	8.3
Taxes increased	56.0
Freight, refining and marketing	
increased	36.0

The weighted average of three large Arizona copper producers gave the following distribution of costs of pro-

Cost Distril				Per Cent
Wages				42
Supplies				
Taxes				
Freight,	refining.	marketi	ng	16

Distribution of the increased rates in proportion to their effect on costs will show that total costs have increased 33.1 per cent, as shown in the following table:

42 per cent of 42.1 per cent
29 per cent of 8.3 per cent
13 per cent of 56.0 per cent
16 per cent of 56.0 per cent
33.1 per cent equals Average increase in cost of production since April
1951.

Hence, if the base of 24 cents per pound of copper was satisfactory in 1951, then today the base should be raised by 33.1 per cent, or approximately 8 cents, making the new base 32 cents per pound.

It is not possible to give any accurate cost figures at this time to show what differential exists between the cost of United States and foreign production; however, it is estimated to be in excess of 4 cents per pound. It therefore is recommended that the present 2-cent tax be increased to not less than 4 cents per pound.

This analysis indicates that the problems of the domestic copper industry are in the present and the near term. The future outlook depends on the satisfactory solution of these

problems.

U. S. LEAD PRICE LIKELY TO HOLD UNTIL DECEMBER; BOOST SHOULD FOLLOW TARIFF RISE LATE IN MONTH

Supply to Remain in Excess of Demand but With Relief in Sight Producers May Be Willing to Build Up Inventories in Hope of Appreciation in Value

By K. W. GREEN, Director of Purchases, The Electric Storage Battery Co.

THE ECONOMIC troubles of the lead and zinc industries have occupied the recent attention of our President, the Congress and certain sectors of the public. All this trouble didn't happen at once but was the cumulative effect of repeated swings of the balance between supply and demand. The one who is hurt usually

To look at this problem in retrospect, it is necessary to go back several years and analyze the conditions that led us to what some now term the brink of disaster. I shall try to sketch this as briefly as possible without skipping any salient features.

1950. Consumers' and secondary smelters' stocks were at the lowest ebb in our study from 1950 to date. Demand for lead rose to an all-time high of 1.24 million tons, spurred on by consumption of 398,000 tons by the storage battery industry. Primary producers' stocks dropped from 220,-000 to 142,000 tons. The shortage in supply sent the domestic price from 10.5c in April to 17c in November when the Government froze the price. As always happens, consumers grabbed for more than they needed and sent their stocks upward the last two months. Against the above-mentioned demand, the year's production of 981,-500 tons had little chance of balance. We were glad for the support of 452.-000 tons of imports.

Abnormal Demand

1951. The abnormal demand continued through the first five months at the average monthly rate of 114,000 tons compared with a domestic production of only 84,400 tons. In the last seven months the average monthly consumption rate dropped to 88,000 tons, but so did production dropto 73,000 tons. The deficit had to be made up at the expense of consumers' and primary producers' stocks because, while our price was frozen, foreign lead flowed to the London market where the price had continued to

rise to 22.5c. Unless our precipitous drop in stocks could be arrested, we were heading for danger. Primary production in the second half dropped quite low, bringing sufficient pressure on the Government to grant relief in October by moving the frozen price from 17c to 19c.

Tariff Suspended, Reimposed

1952. The first half was a nightmare. After months of whining, the tariff was suspended on Feb. 12th. Suddenly, world demand fell off and the London price toppled from 22c to 16.5c by June. The drop in our domestic price didn't occur until two months later so foreign lead poured into our market, imports reaching a peak of 64,000 tons in May. The tariff had to be reimposed June 26 to try to restore order. Domestic demand improved in the second half, exceeding the domestic production by 125,-000 tons which would have permitted a normal flow of imports for good balance. However, world demand continued low causing the London price to nosedive to 11.25c in October. With a differential of 2.75c, imports shot upward to probably an all-time peak of 84,000 tons in December. Total imports for the year - 521,000 tons. This spelled trouble for 1953.

1953. Demand picked up in March and averaged 100,000 tons per month for the year. Domestic supply averaged 78,750 tons per month. Everything would have been fine if consumers bought all their requirements from domestic producers. Imports continued to pour in, averaging 38,000 tons per month for the first nine months. Then, as if by signal, imports dropped to 15,000 tons per month in the last quarter. But domestic producers' stocks rose steadily from 150,-000 tons to 188,000 tons so they petitioned the Tariff Commission for relief under the "escape clause" of the Reciprocal Trade Agreements Act. Hearings were held and a recommendation was made to the President to grant relief in the form of increased tariff to the maximum extent authorized by law which is 150 per cent of the Jan. 1, 1945 rate or 2.55c per pound.

Stockpile Goods

1954. The President rejected the recommendation of the Tariff Commission saying it would not solve the industry's problem but it would disturb foreign trade relations. Instead, the Government announced a plan of buying 200,000 tons of lead for the permanent stockpile to meet a minimum defense requirement goal. In this year the consumption amounted to 1,095,000 tons. Domestic production was 957,000 tons, imports - 280,-000 tons. Net result was further increase in everybody's inventory. The market was orderly and the price rose in two steps to 15c per pound.

1955. A remarkably steady year of market conditions. Consumption of 1,212,600 tons was high - second to 1950. Production was throttled by a 6 week strike at mid-year but still managed to total 996,000 tons by year end. Imports were 280,000 tons. The Government not only drained off the surplus but helped to liquidate 100,-000 tons of overall stocks. The price rose to 15.5c in September and then to 16c late in December. Congress authorized \$600,000 to be spent by the Office of Minerals Mobilization for a study over a two-year period to determine and recommend a minerals

Price Steady in 1956

1956. Price was steady throughout the year at 16c. Consumption was about normal at 1,190,000 tons. Imports (270,000T) were the lowest since 1951. Total domestic production amounted to 1,002,000 tons. Of this amount, 613,000 tons were from primary producers who previously had averaged only 535,460 tons annually for the past nine years. Primary producers' stocks rose to a peak of 175,000 tons at mid-year, but year-end overall stocks differed very little from the beginning of the year.

There was some anxiety for the future because it was believed that the Government would soon reach the permanent stockpile goal. Fears were

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temporarily allayed, however, by the cooperation of the Dept. of Agriculture in agreeing to barter some of our 8 billion dollar surplus in farm products for lead from foreign sources. Lead acquired this way was sold to the General Services Administration and transferred to a second stockpile from which it could be removed only by Congressional action.

1957-Year of Indecision

1957. The year of indecision. The year began with overall stocks, excluding those held by the Government, at 311,000 tons of which primary producers held 157,000 tons. These values are modest. Late in April both the Lead and Zinc Industries Associations met to examine their position economically. Certainly the Zinc Industry was in far worse statistical position, but even in lead we faced the consequences of an anticipated oversupply of 175,000 tons. The Dept. of Interior reassured us that continuation of the barter plan would pick up the load when stockpile purchases reached their goal. One week later the Dept. of Agriculture thought otherwise and imposed restrictive conditions on all future bartering that killed the effectiveness of the plan. Dark days were ahead.

Here is the statistical position of lead for the first six months. Consumption amounted to slightly over 570,000 tons. Imports of 152,370 tons of refined lead were only a bit higher than normal. However, we are well on the way to a banner production year. Primary producers accounted for 307,-300 tons, secondary producers another 200,000 tons. Primary production in April amounted to 56.170 tons, the highest monthly rate in the past nine years. Naturally, stocks have risen but not to an alarming extent, certainly not to the degree encountered in 1949. 1950 and 1954.

World Demand Mediocre

The world demand has been only mediocre. The price of lead on the London Metal Exchange (L.M.E.) took a sharp dive early in May. The differential (from our price) became so great that domestic producers were forced to drop our price in three steps from 16c to 14c to prevent a sudden deluge of imports. The latter price presumably is below the break-even point of domestic producers so the industry just had to have relief. The big bad wolf was "imports."

The industry turned to Congress for help. Ten different bills were proposed in the House and the Senate. Now legal procedure dictates that any tax bill must originate in the House Ways and Means Committee. From there it goes to the floor of the House for action. Passing that step, it is then referred to the Senate Finance Committee for their review, then to the Senate Interior Committee and finally to the floor of the Senate for a vote. Assuming it has favorably passed both branches of Congress, the bill is then sent to the President for signature. Tariff bills become effective the date they appear in the Federal Register unless another date is stipulated.

Propose Sliding Taxes

Where was the Administration's long awaited minerals program? On June 19th the Secretary of the Interior sent a proposed draft bill, amending the Internal Revenue Code of 1954, to the President of the Senate asking for changes in import taxes on lead and zinc. A sliding scale excise tax would be substituted for the present tariff which has been part of a "General Agreement on Tariffs and Trade" (GATT) existing between various signatory Countries. A "peril point" of 17c was identified. At 17c or above, the excise tax would be suspended; 16c-17c the tax would be 1c; 15c-16c the tax would be 2c; and below 15c the tax would be 3c. This proposed bill was criticized by domestic producers as not providing sufficient protection.

An Industry Committee urged strengthening of the bill by providing a steeper excise tax schedule. Seventeen cents per pound was still recognized as the "peril point." If excessive imports break the 17c price, the tax would be 3c. At lower prices, two steps of Ic each were added making the ultimate provision for a 5c tax.

Hold Hearings

The Senate Finance Committee held a public hearing July 22 and 23 to give opportunity for expression of support or opposition to the proposed changes. The House Ways and Means Committee conducted similar hearings on Aug. 1 and 2. Congressmen, principally those representing mining States, voiced their opinions and reasons for need of industry protection. Representatives of foreign interests joined by some domestic producers pointed out that the proposed taxes were not the answer, they would not provide the protection industry was expecting, and that they would definitely harm GATT country economies which could provoke retaliation that might ultimately affect our foreign trade relations.

The time for adjournment of Congress was fast approaching. The Senate Finance Committee voted 11-2 on Aug. 16 in favor of a flat 3c tariff. The two dissenters threatened to

block further action on the floor of the Senate. The Chairman refused to "report out" on the bill until he received the approval of the State and Interior Departments. This was not obtained. Then another plan was attempted, that of tacking the proposed bill as a rider on a previously passed House bill dealing with mica imports. The House Ways and Means Committee was incensed at this action and served notice they would vigorously oppose the bill when it was returned to the House for reconciliation.

Escape Clause

The Chairman of the House Ways and Means Committee then released a letter to the President declaring that the President had all the authority needed under existing law to give whatever the lead and zinc industries may need. He was referring to the escape clause provision in the Reciprocal Trade Agreements Act. The President replied that he agreed, under the circumstances, to refer the matter to the Tariff Commission for expeditious study and recommendation. The chance for any passage of a relief bill by this Congress died then and there.

The Tariff Commission will undoubtedly require further hearings to which they must give 30 days notice. They will then review previous testimony and from all indicators they are expected to repeat their recommendation to the President. All of this takes time so it seems there is little chance for an increase in tariff in the next few months.

Lead Price Outlook

Purchasers of lead are usually consumers. Let us ponder what possible effect any of the probable moves might have on our own businesses. First, and most emphatic: You are going to pay more for lead in the future. The important thing now is when and how much. The tax bills generally referred to a 17c "peril point" so that seems like a minimum goal. Had any of the tax bills become laws, we would expect a further drop in the London price to balance the duty increase, then a prompt increase in the domestic price of lead followed by a parallel price movement in London.

Domestic producers have been willing to hold a 14c price during the summer lull in consumption when the London price has hovered around 91-92 pounds Sterling per ton, which is equivalent to approximately 13.5c at New York, duty paid. With the threat of immediate tariff increase removed, there appears little reason for the

(Continued on Page 13)

WORLD COPPER OVER-PRODUCTION BLAMED AS U. K. **QUOTATION DROPS TO LOWEST LEVEL SINCE 1950**

Gov't Decision to Sell Red Metal From Stockpile Deepens Gloom in Market; Tin Affected by General Dullness; Lead and Zinc Prices Continue Steady

September 5, 1957 S FAR AS the U. K. copper mar-Aket is concerned, the outstanding feature during the past month was the announcement on August 20 by the Board of Trade that, pursuing a policy announced in the Government's Defense White Paper in 1956 of running down strategic holdings of industrial raw material, they intend to dispose of a further 27,000 tons of copper from stock.

Details of the method of disposal and of the rate at which the metal will be sold will not be announced until discussions have been held with Commonwealth producers and other trade representatives, but it was stated that the monthly rate of disposal is unlikely to exceed 2,700 tons. In any case, no copper will be offered for sale before October.

It is assumed in the market that the pattern of disposal will be somewhat similar to that previously adopted; that is to say, a substantial proportion will be sold back to the Commonwealth producers who originally supplied the metal, or their agents, and the remainder offered for open tender.

Unfavorable Reception

Coming at a time when the copper market was weak and had earlier suffered very substantial price falls, this announcement received a very unfavorable reception from all sections of the copper trade here, who consider that its timing was very bad, not only from the point of view of the copper market, but also from that of the British tax payer. It is argued that as the original decision to release copper from the stockpile was taken in the early months of 1956, there could hardly be, after such a long lapse of time, any pressing urgency for further liquidation at this juncture.

It remains to be seen, of course, whether the metal will actually be offered from October onwards, but the news has certainly helped to deepen the gloom surrounding this market and has, no doubt, contributed to depressing prices to below £200 a ton for the first time since 1950. No one would suggest, of course, that this is the only

By L. H. TARRING London, England

RST PRICE CHANGES

Changes in the Rhodesian Selection Trust's fixed electrolytic copper price, since it was established on May 9, 1955, and applicable to the RST's regular customers in the U. K.

	Sterling (Long Ton)	in Cents Per Pound
1955	200	25.00
May 9	280	35.00
August 2	325	40.625
September 5	360	45.00
1956		
February 27	385	48.125
April 30	350	43.75
May 28	320	40.00
June 18	300	37.50
July 2	275	34.375
August 1	300	37.50
October 15	280	35.00
October 24	265	33.125
November 12	280	
December 17	200	35.00
1957	270	33.75
February 1	. 250	31.25
February 19	240	30.00
June 14	. 230	28.75
July 1	220	27 50
July 1 August 12	210	26.25
September 5	200	25.00
September 9		23.75
September 12	200	
September 12	. 200	25.00

bear point in the situation. The basic trouble is that world production continues to run ahead of consumptionthe cuts which have already been announced in output have been fully offset by new production capacity coming into operation during the current

Actual consumption of copper in this country is not up to peak postwar levels, but it is really not at all bad and there is fairly general agreement that as the weak price and statistical position has been caused mainly by production expansion rather than by consumption contraction, a healthy tone is unlikely to re-emerge until output is further trimmed to bring it into line with current needs.

In this connection, the fact that the American price followed the London trend (and early in September primary producers came down to 27 cents per lb.) may help to have a stabilizing effect by way of the increased tonnages which can be delivered to the U.S. Government at this level, under support contracts.

Franc Devaluation

In the latter part of August, the virtual devaluation of the French franc started up a currency scare, with much talk of a possible devaluation of the £, and this was accompanied by a certain amount of buying of metals as a hedge against currencies, which rallied prices a little for a few days.

It appears, however, that despite the unfavorable movement of the British gold and dollar reserves, the Government has every intention of maintaining the £ at its present level. On the other side of the picture, the devaluation of the franc was accompanied by the suspension of French import licenses, and increased import taxes, but licensing has now been resumed again.

Another country beset by foreign exchange problems is Japan, who, although in recent years a heavy importer of copper and copper scrap, is

U. K. COPP

Latistics reports that at the end of June, stocks of copper in the U. K. were 64,121 tons (51,376 tons) compared with 61,991 tons (49,-246 tons) at the end of May. Consumption declined to 51,254 tons (39,756 tons primary refined) compared with last month's improved figure of 58,116 tons (44,746 tons refined). U. K. production in June amounted to 16,221 tons (7,135 tons primary refined; 8,565 tons secondary primary refined and 511 tons secondary blister). Full consumption details are given below.

are given below.				
	(Long To	ns)	
	-	Gross Ou	tput-	
		6 months		
Unalloyed Copper	June		June	
Products	1957	1956	1957	
Wire (1)	21,683	118,659r	141.146	
Rods, bars & sections	1,531	10,076r	8,924	
Sheet, strip & plate .	4,526	29,380r	29,498	
Tubes		26,726	28,610	
Castings & misc	650	3,900	3,900	
Alloyed Copper		-,	-,	
Products				
Wire	1.320	9,635	8,712	
Rods, bars & sections.	9,011	68,634	59,666	

STATISTICS		
	011 63,680	45,792
	483 11,617	11,394
	320 39,446	39,041
Copper sulphate 4,	285 26,479	26,200
Total all products. 62,	352 408,232r	402,883
Copper cont. of output 51,	254 326,865r	331,247
Consumption of re- fined copper (2) 39,	756 252,807r	262,700
Consumption of copper & alloy scrap (3)		
(copper content)1	1,498 74,058r	68,547

Note: (1) Consumption of H. C. copper and cadmium copper wire rods for wire and production of wire rods for export. (2) Virgin and secondary refined copper. (3) Consumption of copper in scrap is obtained by the difference between copper content of output and consumption of refined copper, and should be considered over a period since monthly figures of scrap consumption are affected by variations in the amount of work in progress.

AVERAGE BRITISH PRICES FOR COPPER, TIN, LEAD, ZINC

(Per Long Ton)
Mean of Bid and Asked Cash Quotation at Close of Morning Session on London Metal Exchange

	- COPPER -			- TIN -		- LEAD		ZINC
Cash		ement (3 Months	Settlement	Current 3	rd	Current 3rd
							lowing	Month Following
& s. d.	& s. d. & s	s. d. £	s. d.	£ s. d.	£ s. d.	& s. d. &	s. d.	£ s. d. £ s. d.
1954 Averages 248 17 11	239 17 7 249	0 11 719		709 17 7	720 6 7	98 8 12 94		78 5 4 77 16 11
1955 Averages 351 14 11	341 0 3 352	5 6 740	0 2 12	736 12 11	740 12 8	105 17 3 105	9 6	90 13 4 89 12 3
1956 Averages328 14 5	324 13 1 329	1 8 787	7 14 9	774 7 7	788 13 3	116 6 5 114	8 9	97 14 3 95 3 7
January 265 17 11	264 14 4 266	3 2 789	9 3 2	771 10 5	789 16 4	116 5 1 114	10 8	103 5 1 98 13 8
February 245 11 2	244 2 0 245	16 3 770	0 16 9	752 9 6	771 8 6	113 3 0 112		99 8 11 96 17 0
March 239 10 11	239 2 9 239	14 6 770	0 14 6	756 8 7	771 7 2	113 2 1 112	6 11	96 12 3 94 15 9
April 241 19 2	242 15 9 242	2 0 774		768 7 6	774 17 6		14 1	98 7 6 94 13 5
May 237 17 5	238 1 2 238	0 3 765		763 8 6	765 15 3		16 1	85 15 7 82 8 3
June	228 16 2 227	5 9 762		759 14 9	762 16 10		19 9	74 6 1 73 16 4
July	219 11 9 217			750 3 8	753 13 1	90 12 3 91		75 3 1 73 14 11
August208 12 3	210 12 7 208	15 9 740	0 0 9	748 18 1	740 6 8	91 14 6 92	0 3	73 17 10 73 13 9

currently talking of exporting electro in the not too distant future.

Stocks in London Metal Exchange warehouses have continued to rise, the figure at the end of August being 14,896 tons compared with only about 12,000 tons at the end of July. There has, however, been no widening in the contango and, indeed, for technical reasons, a small backwardation momentarily appeared.

Tin Surplus Persists

Although tin is in a rather different position from other major metals by virtue of the operation of the International Tin Agreement, and the support this can give the market via the Buffer Stock Manager, tin prices have, nevertheless, been affected to some extent by the general dullness during the past month, and are now only £5 to £6 above the Buffer Stock minimum support level of £730 a ton.

From the behavior of prices, it would seem that consumers tend to come into the market for their needs at about this figure, rather than to wait for the uncertain possibility of being able to buy at a rock-bottom

U. K. TIN STATISTICS

Stocks of tin at the end of June in the U. K. totaled 4,692 tons compared with 4,043 tons at the end of May, reports the British Bureau of Non-Ferrous Metal Statistics. Of this, consumers held 1,665 tons; against 1,609 tons the previous month. Production fell during the month to 2,757 tons (2,735 tons primary, 22 tons secondary) from 3,588 tons (3,564 tons and 24 tons) during May. Full details of consumption are given below:

	-Lo	ng Tons	
	une	6 mos.	
Trade	1957	1956	1957
Tinplate	912	4.920	6,205
Tinning:			.,
Copper wire	57	251	281
Steel wire	6	56	50
Other	58	436	366
Total	121	743	697
Solder	155	1,492	1.064
Alloys:		.,	-,
Whitemetal	228	1.476	1,376
Bronze & gunmetal	192	1,397	1.249
Other	26	227	177
Total	446	3,100	2,802
Wrought tin (1)			
Foil & sheets	22	142	149
Collapsible tubes	26	171	155
Pipes, wire & capsules		24	36
Total	54	337	340
Chemicals (2)		502	572
Other Uses (3)	12	61	59
Total all trades	1,799	11,155	11,739

Notes: (1) includes Compo & "B" metal; (2) mainly Tin Oxide; (4) ma'nly Powder.

RISE IN BRITISH BANK RATE AFFECTS METAL MARKETS

The announcement on September 19 of the rise in the British Blank rate to 7 per cent from 5 per cent resulted in lower metal prices on the London Metal Exchange. The Bank action was expected to curtail speculative buying of metals as an inflation hedge, and result in metal inventory liquidation to lessen the cost of carrying stocks.

figure of £730. Everything points to the fact that the surplus of production over consumption persists, especially as the hoped-for revival in American consumer demand in the Autumn now seems to be a very doubtful starter.

However, since the Buffer Stock Manager is generally credited with still having large sums of money at his disposal for supporting the market as and when the need arises, everyone is convinced that £730 is a pretty solid floor price and in Kuala Lumpur recently, the President of the Federated Malay States Chamber of Mines, Sir Douglas Waring, stated pretty categorically that there will be no regulation of tin output this year, and probably not for some considerable time.

Russia Exporting Less Tin

Meanwhile, it is of some interest to note that latest market estimates of the amount of tin being exported from Russia are less depressing than those made two or three months ago. The figure is now being put at about 500 tons a month or less, whereas at one time it was thought that Soviet shipments might be amounting to as much as 1,000 tons a month.

Stocks of tin in London Metal Exchange official warehouses during August rose by upwards of 800 tons to 3,855 tons and prices now register a moderate contango.

Lead Market Dull

Lead is described in the text books as a dull, grey metal and that description pretty accurately fits lead market conditions in recent weeks.

Practically the only excitement — if excitement it can be called — during the peak holiday month of the year, has been studying the develop-

ments in connection with the proposed increased tariff protection for the U.S. industry.

Although for a time the picture seemed to be very confused, the market here now seems to have settled down to the idea that higher duties will probably be imposed before the year is out, even if these are not perhaps as high as the U. S. domestic producers wish. An open mind has been kept here as to the global effect of such a development.

Would Depress Price

Most people are agreed that if it were to take place in market conditions analogous to those which currently prevail, the inevitable effect would be to tend to depress the price level in Europe and outside the United States. Indeed, it is doubtful whether it would do more than underwrite the present U. S. domestic quotation, especially bearing in mind the pretty broad hints that have been dropped that American Government stockpile buying is unlikely to continue for the whole of the current fiscal year.

On the whole, European consump-(Continued on Page 13)

U. K. LEAD STATISTICS

The British Bureau of Non-Ferrous Metal Statistics reports that during June, lead stocks in the U. K. increased by 1,344 tons to 42,146 tons, of which consumers held 23,478 tons (16,317 tons virgin; 7,161 tons English refined'. Consumption during the month totalled 28,807 tons (31,574 tons in May) as detailed below:

detailed below:							
	Long To	ns					
	6 mo	nths					
June	June Jan.						
1957	1956	1957					
Cable	58,327r	69,381r					
Batteries-As metal 2.367	14,825	14,190					
Battery oxides 1,874	14.036	11,968					
Tetraethyl lead 1,729	10,505	10.577					
Other oxides and com-	,	,					
pounds 1,812	12.988	11,537					
White lead 798	5.518	4.768					
Shot 320	2,406	2,227					
Sheet and pipe 5,380	36,848	34,830					
Foil and collapsible	00,020	02,000					
tubes 336	2,551	2,322					
Other rolled and ex-	-,	-,					
truded 467	3,975	3,311					
Solder 998	7,095	6,322					
Alloys 1,360	8,329	8,430					
Miscellaneous uses 1,094	6,277	6,293					
Total consumption. 28,607	183,680r	177,156r					
of which:-							
Imported virgin							
lead15,346	89,288	84,046					
English refined 5,713	41,977r	40.941r					
Scrap including re-	,	20,0222					
melted 7,548	52,415r	52,169r					

r-Revised.

British Metal Markets

(Continued from Page 12)

tion is holding up fairly well but is nothing to get excited about and barring possible repercussions from American tariff charges, the immediate outlook suggests that prices may continue at around their present level, since the market seems to show considerable resistance to any further decline around £90 a ton and few people can see any important factor on the bull side for the time being.

Zinc Price Steady

Although during September metal will begin to come onto the market here from the release of Government strategic stocks, the price level has, on balance, kept very steady recently, after a temporary upward flutter occasioned by a certain amount of hedge buying against currency uncertainties.

It is believed that any further decline in price would make it quite uneconomical for many mines to ship concentrates to the smelters and had it not been for the heavy fall in ocean freights this year, even the present level would have been impracticable for the majority of producers. As it is, Mount Isa mines have ceased shipping until the price suitably improves.

The demand picture on this side of the Atlantic has changed very little in recent weeks. It is still thought that there is room for some improvement in buying for the motor car industry,

U. K. ZINC STATISTICS

During June consumption of zinc in the U. K. fell to 25,20° to 15 from 29,589 tons in May, reports the British Bureau of Non-Ferrous Metal Statistics. U. K. output in June was 6,138 tons (6,608 tons in May) and stocks rose on the month by 1,384 tons to 37,384 tons, of which consumers held 17,861 tons and the LME official warehouses 1,083 tons.

Longs Tons 6 mos. ending 30th June 1956 1957 57,468 48,17 54,831 55,84 Trade 1957 48,172 55,846 17,412 20,154 10,880 7,400 7.281 Galvanizing of which: General 8,007 2,627 2,693 1,626 1,061 17,727 16,144 11,213 9,747 Sheet Wire Tube Rolled zinc 1,667 12,020 14,298 11,713 13,422 Zinc oxide
Zinc diecasting and
forming alloy
Z'nc dust
Miscellaneous uses 20,005r 4,774 5,926 20.530 968 965 6,031 Total all trades .25,202 169,322r of which:-66,188 1,558 3,183 ern & Debased.
Other virgin material.
Remelted zinc.
Scrap—(Zinc content)
Zinc metal, alloys
& residues
Brass & Alloys .. 2,742 16,855r 16,866 Brass & other copper alloys .. 3,189 27,073 r-Revised.

both in the form of die castings and brass products, but it is open to doubt whether this will make any very great difference to the general picture.

In zinc, as in lead, great interest has been shown in the political activities in the United States over the question of increasing import duties or taxes, and the feeling is perhaps a little more pronounced in connection with zinc, that when such an event occurs — for it is now assumed that it will — it is likely to have a depressing effect on open market prices on this side of the Atlantic.

Washington Report

(Continued from Page 5) cluding bonus payments of \$30 a ton

GSA Aluminum Buying

General Services Administration has reached agreement with three primary aluminum producers on revisions of the aluminum supply contracts which were entered into during 1950, 1951 and 1952 to meet urgent long-term requirements for aluminum which emerged during the Korean War. GSA signed agreements with Aluminum Co. of America, Kaiser Aluminum & Chemical Corp. and Reynolds Metals Co.

The agreed upon amendments to the contracts are within the framework of a recent ruling by the General Accounting Office interpreting the "put" rights under the contracts.

Under the original contracts, the companies undertook to enlarge their productive capacity by 658,475 short tons of aluminum per year. The contracts gave the companies the right to tender to the Government the production from the contract facilities in excess of the requirements of the producers for a five-year term.

Points covered by the negotiations:

1. Producers have agreed to deduct the full amount of primary aluminum purchased from other sources.

 Producers have agreed that metal delivered to the Government shall be stockpile grade rather than meeting the previous lower minimum grade of 99.0 per cent purity.

3. Producers have agreed to sell the aluminum to the Government at the price prevailing at the time it is produced rather than at the time it is shipped.

4. The contracts formerly had specified that 25 per cent of the expended capacity be earmarked for non-integrated users for a period of 15 years after exploration of the put rights. Now the amount to be made so available to such users is 35 per cent of such capacity, an increase of 40 per cent. This will make a total of 230,466 short tons a year available to independent fabricators and extruders or a 15-year total of 3,456,990 tons worth nearly \$1,800,000,000 at today's market price of 26 cents a pound.

Barter Program

The U.S. Department of Agriculture reported that barter contracts for

supplemental-type strategic materials signed during the fiscal year ended June 30 totaled \$227,600,000 compared with \$104,900,000 for fiscal year 1956. Contracts signed in June but committed earlier had a total value of \$3,-700,000. The June total compares with \$6,500,000 in May, 1957, and \$200,-000,000 in June, 1956.

Lead, on which commitments were made prior to recent changes in the barter program, was the only supplemental-type strategic material contracted for in June, 1957. Under USDA's barter program, Commodity Credit Corp.-owned farm commodities are exchanged for minimum, long-term, and supplemental-type strategic materials for stockpiling, and for materials for transfer to other Government agencies.

Canadian Nickel

Acting Attorney General William P. Rogers declared International Nickel Co. of Canada, Ltd., has a "now declining but still substantial dominance" of the U. S. nickel market. He said the \$850,000,000 Uncle Sam has pumped into nickel expansion programs has reduced Inco's share of the market from 95 per cent in 1950 to about 66 per cent today. The future, he declared, "may well promise increasing competition with a resulting decline in Inco's present control over nickel supply."

Mr. Roger's views were transmitted to the White House and Congress. The U. S. Attorney General is required to make such quarterly reports on the possible anti-competitive effects of defense production expansion programs. The report said Government programs have boosted the U. S. supply of nickel from all sources to 290,000,000 pounds a year from 200,000,000 pounds in 1950. By 1961, supplies are expected to total 450,000,000 pounds, enough to meet all military and civilian requirements.

Lead Price May Hold 'til December and Then Rise

(Continued from Page 10)
London price to drop much in the next few months.

Supply will continue in excess of demand but with relief in sight, it is quite possible that domestic producers will be willing to continue allowing their inventory to increase in the hope of appreciation in value later. On the positive side of reason for a sustained or stronger market are two conditions: Sept., Oct., and Nov. are normally high consumption months, and scrap dealers have been withholding scrap from the market waiting for higher prices.

Therefore, we expect the price to hold until December, look for a tariff increase late in December to be followed promptly by a price increase.

United States Duties on Principal Ore and Metal Imports

(Including Revisions in Effect June 30, 1957, Under Geneva Agreements) (Quantities Are in Pounds Unless Otherwise Stated; n.s.p.f. Stands for "Not Specially Provided For.")

COPPER	Zinc dust
NOTE — The excise tax of 4c a pound on copper (which was reduced to 2c a pound by the Geneva Trade Agreement) was suspended in April, 1947, until March 31, 1949, and on expiration it was further suspended until June 30, 1950. The tax was reimposed on July 1, 1950. It was suspended again on May 22, 1951, retroactive to April 1, 1951, and until February 15, 1953, and again until June 30, 1954. Suspension further extended to June 30, 1955, and	Zinc die-casting alloys
again until June 30, 1958. If import tax is restored, the 1956 Geneva Agreement provides for 5% reductions effective on June 30 of 1956,	MISCELLANEOUS METALS AND ORES
1957 and 1958, provided the price is above 24c; if the price is below 24c the 2c tax would prevail.	Aluminum, metal and alloys, crude, except
Copper ore and concentrates, usable as flux, etc., copper content	alloys elsewhere provided for †
Regulus, black, or coarse copper, and cement copper, copper content	Antimony metal and regulus .2c lb Antimony needle or liquidated .1 $\frac{1}{4}$ c lb Antimony oxide .1c lb Antimony sulphides .1 $\frac{1}{2}$ c lb. & $12\frac{1}{2}$ % Arsenic, metallic $\frac{1}{2}$.2.70c lb. Arsenious acid or white arsenic .free Bauxite, crude* .free
Copper brazed tubes†	Bauxite, refined** $\frac{1}{6}$ Bismuth $\frac{17}{8}$ Bismuth salts and compounds $\frac{35}{8}$
BRASS	Beryllium metal† 22½%
Brass rods, sheets, plates, bars, strips, Muntz or yellow metal sheets, sheathing, bolts, piston rods, shafting and bronze rods, tubes and sheets	Beryllium ore free Cadmium 33%c lb. Cadmium flue dust, cadmium content free Chrome or chromite free Chrome or chromium metal† 11% Cobalt metal free Cobalt ore and concentrates, cobalt content free Magnesium, metallic† 14.30c lb.
LEAD	Magnesium powder, sheets, wire†18c lb. & 9½%
NOTE — Import duties on lead-bearing ores, flue dust, and mattes of all kinds, lead bullion or base bullion, lead in pigs and bars. lead dross, reclaimed lead and antimonial lead were suspended February 12, 1952. and reimposed on June 26, 1952. Lead scrap duty was reimposed July 1, 1952.	Magnesium alloys†
Lead-bearing ores and mattes, n. s. p. f., lead content	Molybdenum ore or concentrates, molybdenum content†
lead content	Nickel scrap
ZINC	less than 1/8 in. thick, oz. troyfree
NOTE — Import duties on zinc-bearing ores, and on zinc in blocks, pigs and slabs were suspended February 12, 1952, and re- imposed on July 24, 1952. Tax on old zinc and dross and skimmings reimposed July 1, 1953.	Platinum, ores, platinum content, oz. troy free Quicksilver or mercury 25c lb. Selenium and salts free
Zinc-bearing ores, except pyrites containing not more than 3% zinc, zinc content6/10c lb. Zinc contained in zinc-bearing ores, n. e. s., not recoverable, zinc content	Tantalum Tin ore, cassiterite, and black oxide of tin, tin content Tin in bars, blocks, pigs, grain, granulated, and scrap, and allows chief value tip, n. s. n. f

*Crude bauxite import duty suspended to July 15, 1958. **Under Public Law 25 alumina imported for use in aluminum production is free for entries from July 17, 1956 to July 16, 1958. *Tariff to be reduced 5% on June 30, 1958, under Geneva Agreement which expires on June 30, 1959.

scrap, and alloys, chief value tin, n. s. p. f.free

Tungsten ore or concentrates, tungsten content...50c lb.

Zinc, old and worn out, fit only for

Dross and skimmings

Zinc in sheets

Zinc sheets, plated with nickel or other base

......34c lb.

REAL PRICE STABILITY IN COPPER UNLIKELY UNTIL FURTHER CUTBACKS ARE MADE IN WORLD PRODUCTION

U. S. Producers at 27c, Smelters at 26c; Lead, Zinc Markets Steady; Tin Moves in Narrow Range; Silver, Quicksilver and Platinum Weaker

September 17, 1957

LUNGING copper prices paused briefly during the month in review and showed signs of strengthening. But it was too early at this writing to tell whether the upward trend was only a flash-in-the-pan or that pay dirt had been hit. Most trade quarters appeared to be of the opinion that no real price stability can be achieved in copper until world overproduction of the metal is corrected to a greater extent than it has been.

Primary copper producers maintained their 27.00c a pound delivered price for electro, fully established on September 4, and down 1.50c from the 28.50c level which had been in effect since August 8. The custom smelter quotation slumped from the last price of 28.25c in this space, established on July 19, to 25.00c on September 9. On September 12, however, the smelter price moved up to a range of 25.00 to 25.50c, and on September 13 all smelters quoted 26.00c and did business at that level.

Lead and zinc quotations were steady, at 14.00c a pound New York for the former and 10.00c a pound East St. Louis for the Prime Western grade of the latter. Spot Straits was quoted at 93.75c a pound New York on September 16, down 0.75c from the last level noted in this space of 94.50c, for August 8.

Although special charges on certain aluminum products were reduced, producers maintained their 28.10c a pound quotation for 30-pound primary aluminum ingots, 99.5% plus grade. Silver fluctuated and was quoted at 90.625c an ounce at New York on September 15. Platinum and quicksilver displayed weaker tendencies, with the former available at \$81-\$87 an ounce and the latter at \$245-\$250 a flask.

Copper Price Trend

The previously-noted declines in domestic producer and smelter electro copper prices generally followed the downward movement for the metal in overseas' markets. On the London Metal Exchange the electro copper price slid to the equivalent of 22.875c a pound on September 9, and the Rhodesian Selection Trust quotation dipped to the equivalent of 23.75c.

The large Belgian producer, Union Miniere du Haut Katanga moved its price down to a basis of 24.50c a pound Antwerp or c.i.f. New York on September 10, and the French agency (GIRM) cut its selling price to a basis

of 24.92c a pound f.a.s. New York on September 12.

An upswing got under way on the LME on September 11, continued on the 12th and on the 13th had reached the equivalent of 25.56c a pound. Domestic smelters were quick to join the upward trend, moving to 25.00 to 25.50c on the 12th and to 26.00c on the 13th. The smelter price was maintained on the 16th. Developments favorable to the market were: the British Board of Trade announced it was postponing the sale of 27,000 tons of copper from the British Government's stockpile because of the "disturbed state" of the market; the Rhodesian Selection Trust fixed price to British consumers was increased to £200 per long ton (the equivalent of 25.00c a pound); the Belgian producer advanced its copper price to a basis of 25.50c c.i.f. New York and the French agency increased its price to 25.78c f.a.s. New York.

Unfavorable Developments

At this writing, there also were unfavorable developments. The LME price started downward again on September 16 and on the 17th closed at the equivalent of about 24.09c. Domestic smelters cut their scrap copper buying prices to a basis of 19.50c for No. 2 heavy copper and wire, down 0.50c from the 20.00c level established when they moved up to 26.00c for electro. Consumers of fabricated copper and brass products continued to display hesitancy and, most important, there was no real change in the production picture which had been the main cause of the recent declines.

Sir Ronald Prain, chairman of the Rhodesian Selection Trust group, has issued a call for a 10 per cent cutback by the producers who control two-thirds of the free world's copper production. The RST mines cut their output by 10 per cent in June. Sir Ronald also described the recent price decline as "overdone."

Cutback Picture

Copper industry leaders who attended the recent American Mining Congress made it plain they are giving careful consideration to further cutbacks. Further cutbacks may be necessary if the copper price is to be maintained, it was pointed out.

Phelps Dodge announced another cutback in production (of 5 per cent or 1,250 tons a month) on September 17; including previous cutbacks made in November, 1956 and March, 1957 (of 10 per cent or 2,250 tons a month), the company's output so far has been curbed 15 per cent or around 3,500 tons a month. Anaconda's U. S. mine

production also has been cut, by 3,000 tons to around 9,500 tons a month. But Kennecott Copper Corp., as yet, has announced no cutbacks. A Kennecott official said, however, that the latest primary price reduction (to 27.00c) made its Nevada mine operations more difficult. Nevada produces about 3,000 tons of Kennecott's total domestic output of 34,000 tons.

Minor Curtailments

Minor production cuts have been announced, during the month in review, in other directions. Calumet & Hecla reported it was cutting output at its Michigan-area mines, costing the company about 10 per cent of its production. Last year Calumet & Hecla produced 19,200 tons, slightly less than 2 per cent of U. S. copper output. The Chilean Government also announced it was closing some copper mines because of the sharp declines in world copper prices. The affected Chilean facilities produce about 25,-000 tons annually, or about 6 per cent of that country's 1956 output of 539,-839 tons. These mines are not worked with methods as technically advanced as those applied by U. S.-owned mines The Chilean Government also emphasized it was determined, despite the price increase, to keep or increase output in mines owned by subsidiaries of Anaconda and Kenne-

August Copper Statistics

Features of the August copper statistics included sharp increases in shipments at home and abroad, with little change in output and stocks. Domestic August figures follow, in tons, with July totals in parentheses:

Refined output, 128,480 (127,434); deliveries to fabricators, 107,522 (84,-702); stocks in hands of producers at end of month, 192,931 (191,515).

Accompanying the decline in the primary producer copper price to 27.00c were reductions by brass and wire mills, the full copper products being reduced 1.50c a pound and proportionately for alloy items, depending on copper content. Brass mills also reduced their scrap copper buying prices to reflect copper at 27.00c.

The fall and rise in the smelter electro copper quotation was accompanied by a decline and advance in prices for brass and bronze ingots; a reduction of 1.00c to 1.50c on September 9 and an increase of similar proportions on September 13.

Lead, Zinc Steady

Stability keynoted both the domestic lead and zinc markets. Moderate consuming demand was noted for lead, much of the demand being for shipment this month. Lead buying in volume for October shipment is expected to be felt shortly. Lead was unchanged at 14.00c a pound New York and 13.80c St. Louis.

In spite of the fact that the output of slab zinc is still running in excess of consumption, and that were it not for the tonnages that the Government buys each month for the long-term stockpilling program there would be much larger increases in the unsold stocks that are in producers' hands, nevertheless there has been no selling pressure in evidence and no attempt to shade prices. Whatever business is done is either at the spot price of 10.00c a pound East St. Louis for the Prime Western grade or at the monthly average.

Zinc made m better showing statistically in August than it had for several months. August statistics for all grades of zinc follow, in tons, with July totals in parentheses: production, 84,166 (85,779); total shipments. 81,049 (73,055); shipments to domestic consumers, 70,318 (57,862), and for Government account, 9,871 (11,186); stocks at end of month, 149,296 (146,-179); unfilled orders at end of month, 31,663 (28,296).

Tin Market Slow

The domestic tin market has been on the slow side, with the current long-distance telephone strike making it difficult for importers to contact their out-of-town customers. Spot Straits tin at New York closed at 93.75c on September 16, as against the last quoted price in this space of 94.50c for August 8. The high for the August 8-September 16 period was the 94.50c level registered on August 8, 12, 15, 16, and 17, while the low of 92.87c occurred on September 6.

Primary Aluminum Unchanged

Primary aluminum prices were unchanged during the month in review but there were further indications that supplies were mounting. Reynolds Metals Co., one of the "Big Three" primary producers, announced reduction of special charges on extra large dimensions of non-heat-treatable aluminum alloy plate. Reynolds new pricing policy means price cuts of up to 4.90c a pound on widths and diameters in excess of 84 inches in plates and plate circles.

Southwire Co. of Atlanta, Ga., an aluminum wire fabricator reduced its list prices in an attempt to stabilize prices. Industry people, however, wondered if the move will succeed because the wire has actually been selling at levels below the new list quotations. Southwire cut reinforced aluminum wire 3.00c a pound and covered aluminum or insulated wire from 15 per cent to 20 per cent per linear foot, with the company's Swan No. 4 ACSR (aluminum conductor steel reinforced) dropped from 40.98c a pound to 37.08c. Trade quarters noted

that ACSR wire has been selling for from 6.00c to 8.00c a pound below list price and in some cases close to the 26.00c a pound price for pig aluminum.

Silver Lower

The New York silver price on September 16 was 90.625c an ounce, as against the last quoted level in this space of 91.125c, established on August 8. During the period in review the silver price dropped 0.25c an ounce to 90.875c on August 16; dipped another 0.25c to 90.625c on August 26; dropped to 90.16c on September 13, and partially recovered to 90.625c on September 16.

Quicksilver Weakens

Spot quicksilver on September 16 was quoted at \$245 to \$250 per flask of 76 pounds as against the previous range of \$252 to \$255 last noted in this space. The spot price dipped to \$250-\$255 on August 16, to \$246-\$250 on September 12 and to \$245-\$250 on September 16. The supply situation was described as adequate, reflecting improved domestic mine output. Indications were that business could be done at below the \$245 level. Sellers asserted it was not so much a question of price but rather one of finding a buyer.

Platinum Easier

Platinum continued to ease at the dealer level, and was available at \$81 an ounce. The refiner price was maintained at \$84-\$87, so that the market ranged from \$81 to \$87 an ounce.

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NATIONAL BUSINESS PRESS

425 West 25th Street, New York 1, N. Y.

Daily Metal Quotations in August, 1957

The following quotations are taken from the Daily Metal Reporter

(In Cents Per Pound)

	Silver	Cents Per Junce) Vew York	2000	20.00	579.06	340.00	01 135	01.12	91 175	91.125		91.125	91 125	91 175	91 175	90.875		90.875	90.875	90.875	90.875	90.875		90.625	90.625	50906	509 00	50,00	70.02	00000	90,30	90.625
	Anti-	Domestic Spot 99.5% o.b. Laredo	22.00	22.00	33.00	22.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	33.00	22.00	33.00	33.00
	Alumi-	30-Lb. Ingot 99% Plus (f. o. b.)	20 10	01.07	20.70	26.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28.10	28 10	28.10	28.10
		Spec. High Grade Delivered	11 75	11 75	27.11	77.11	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75	11.75
		High Grade Delivered	11 25	11 35	11 25	11 35	11 35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35	11.35
	- Zinc -	Brass Spec. f. o. b. E. St. Louis	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25
		Prime West. Del. N. Y.	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	0001	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	-	Prime West. f. o. b. E. St. Louis	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
(1)	pr	Outside St. Louis	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	13.80	15.80	13.80	00.01	13.80	15.80	13.80	13.80	13.80	13.80	13.80
TOO I IS	Lead	New York	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00	14.00
-	1 80	Prompt	95.25	95.25		95.375	95.00	94.625	94.375	94.375		94.375	94.00	94.25	94.25	94.375		94.375	94.25	94.125	93.875	93.625		95.575	67.66	93.25	93.00	92.875		94.159	95.375	92.875
	Straits	Jogs	95.25	95.25		95.375	95.00	94.75	94.50	94.50		24:50	25.00	94.25	94.50	94.50		94.50	94.375	94.125	94.125	95.875	01.00	95.50	675.57	95.25	95.125	93.125		94.261	95.375	93.125
		Average Electrolytic Export Price F.a.s. N. Y.	27.50	27.50	27.50	27.375	27.125	27.125	27.125	27.00	27.00	26.75	20.75	26.75	26.75	26.75	26.75	26.75	26.75	20.75	26.00	20.00	20.00	27.75	25.72	0.00	50.62	25.625	22.625	26.598	27.50	25.50
		Lake Del.	29.25	29.25	29.25	29.25	28.50	28.50	28.50	28.50	28.50	20.50	20.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	28.50	20.50	20.00	28.50	20.02	20.00	00.02	28.50	78.50	28.611	29.25	78.50
	Copper -	Electro f. o b. Refinery																														
		Custom Smelters' or Outside Price	28.25	28.25	28.25	28.25	28.25	28.25	28.25	20.02	20.00	26.25	20.00	20.00	20.02	20.00	20.02	20.00	27.75	27.72	27.72	27.75	27.75	27.75	27.00	00.72	27.00	27.00	00.77	27.862	27.87	00.12
		Producers' Price Del. Conn.	29.25	29.25	29.25	29.25	28.875	28.875	20.50	20.50	20.00	28.50	20.02	20.20	20.50	20.20	30 50	20.50	20.20	20.00	28.50	28.50	28 50	28.50	28 50	28.50	28 50	20.02	00.02	28.639	20.62	00.02
_		AUGUST	- (7	~ 1	5	01	- 0	0 0	10	12	13	1 7	12	12	17	10	200	27	22	32	24	26	27	28	29	30	2 17	. :	AV.	1	

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Brand or Marks	Producer	Grade	Brand or Marks	Producer Calumet & Hecla Consolidated	Grade Copper Co. Lake
B. E. R.	American Smelting & Refining Co. (Baltimore, Md.)	Electrolytic	C. R. Q. M. CO.	Copper Range Company Quincy Mining Company	Lake Lake
P. A.	American Smelting & Refining Co. (Maurer, N. J.)	Electrolytic			*
B. & M. AE BOLIDEN C. C. R. C de P Peru C. C. C. F E C	(Maurer, N. J.) American Smelting & Refining Co. (Tacoma, Wash.) Anaconda Copper Mining Co. Andes Copper Mining Co. Bolidens-Gruvaktiebolag Canadian Copper Refiners Ltd. (Montreal) Cerro de Pasco Corporation Chile Copper Company Falconbridge Nickel Mines, Ltd.	Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic	Brand or Marks B. C. R. N. H. E. A M CO R H C	Producer British Copper Refiners, Ltd. Nassau Smelting & Refining Co., Inc. United States Metals Refining Company	Grade Fire Refined High Conductivity Fire Refined High Conductivity Fire Refined High Conductivity
KUEL. M. C. MUF NA ORC A. L. S.	Kennecott Copper Corp. Lewin Metals Corporation Mufulira Copper Mines, Ltd. Norddeutsche Affinerie Ontario Refining Co., Ltd. Philps Dodge Refining Corp. (For Adolph Lewisohn Selling Corp.)	Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic	Marks * * * (3 Star) K C M M T D P. D. M. R	Braden Copper Company Kennecott Copper Corporation Messina (Transvaal) Development Co. Phelps Dodge Corporation †United States Metals Refining Company	Grade Fire Refined (other than Lake & Fire Refined High Conductivity)
L. N. S. P • D	Phelps Dodge Refining Corp. Phelps Dodge Corporation	Electrolytic Electrolytic	Oss:	cial List of Approved	Pofinava
N. E. C. R E C B O R U M K D R W AMCO OFHC W E K	Raritan Copper Works Rhokana Corporation Rudnicl Bakra i Topionice Union Miniere du Haut Katanga †United States Metals Refining Co. †United States Metals Refining Co. †United States Metals Refining Co. Zinnwerke Wilhelmsburg G.m.b.H.	Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic Electrolytic	Whose CAT American Small Anaconda Coppe Andes Copper Bolidens Gruva	HODES are deliverable at Exchange, Inc., Copper Coing & Refining Co. Mining C	gainst Commodity ntract opper Mines, Ltd. se Affinerie fining Co., Ltd. ge Refining Corp. ge Corporation oper Works
†Sub s idiary, Th	ne American Metal Co., Ltd.		Consolidated M Smelting Co. Falconbridge N Kennecott Copp Lewin Metals (ickel Mines, Ltd. Union Mini per Corp. Rudnici Ba Union Mini United Stat	orporation kra i Topionice lere du Haut Katanga es Metals Refining Co. Wilhelmsburg G.m.b.H.

	Lewin Metals Corp.	Zinnwerke Wilhelmsburg G.m.b.H
	Lead Brands	1/49
Refined At	Producer	Brand Mark
		*ALTON
ederal, Ill., U. S. arteret, N. J., U. S.	American Smelting & Refining Co. United States Metals Refining Co.	**A M CO
onterrey, Mexico	American Smelting & Refining Co.	*ASARCO MONTERREY
ort Pirie, Australia	Broken Hill Associated Smelters	*B.H.A.S.
dianapolis, Ind., U. S.	National Lead Co., American Lead Plant	tablue arrow american LEAD CORP
raubach a/Rhein, Germany	Blei-und Silberhutte Braubach	*Braubach dopp. raff. Deutschland
laho, U. S. rya, Peru	Bunker Hill Smelter	BUNKER "C" HILL
	Cerro de Pasco Copper Corp.	*CERRO PERU
ollinsville, Ill., U. S.	St. Louis Smelting & Refining Co.	†aCHEMICAL
		ST. L. S. & R. CO.
Ionterrey, N. L., Mexico	Compania Metalurgica Penoles, S.A.	**C.M.F. y A.M.
iton, Ill., U. S.	St. Joseph Lead Company	*DOE RUN
ker, Germany	Unterharzer Berg- und Huttenwerke	*HARZ 99.985, HARZ 99.9
oplin, Mo., U. S.	Eagle-Picher Mining & Smelting Co.	*EAGLE-PICHER
amioka, Japan	Mitsui Mining Co.	*E.M.K. *Eschweiler raffine
tolberg, Rhineland, Germany	Stolberger Zinc Aktiengesellschaft fur Bergban und Hattenb	*FEDERAL
dederal, Ill., U. S. Shicago, Ill., U. S.	American Smelting & Refining Co.	tG B
loboken, Belgium	Goldsmith Bros. Smelting & Refining Co. Societe Generale Metallurgizue de Hoboken	H.E.R. Escaut
iten, Ill., U. S.	St. Joseph Lead Company	*HERCULANEUM
maha, Neb., U. S.	International Smelting & Refining Co.	•ILR
Omaha, Neb., U. S. Konsanto, Ill., U. S.	Lewin-Mathes Co.	†MONSANTO
fonteponi, Italy	Societa di Monteponi	*Monteponi
an Gavino Monreale, Sardinia.	Montevecchio Societa Italiana del Piombo e dello Zince	*Montevecchio
fammond, Ind., U. S.	Metals Refining Company	tm R CO METALS REFINING
Omaha, Neb., U. S.	American Smelting & Refining Co.	OMAHA & GRANT
Overpelt, Belgium	Compagnie des Metaux d-Overpelt-Lommel et de Corphalle,	S.A. *Overpelt extra-raffine O.VL.LDur.
Megrine, Tunis	Ste. Min. & Metall. de Penarroya	*Penarroya
enarroya, Sopwith & Cartagena. Spain	Ete Min. & Met. de Penarroya	*Penarroya
Perth Amboy, N. J., U. S.	American Smelting & Refining Co.	PERTH AMBOY
lenoa, Italy	Societa di Pertusela	*Pertusola
Ill., U. S.	St. Joseph Lead Company	ST. JOE
ollinsville, Ill., U. S.	St. Louis Smelting & Refining Co.	taST. L. S. & R. CO.
Selby, Calif., U. S.	American Smelting & Refining Co. Consolidated Mining & Smelting Co. of Canada, Ltd.	*SELBY *TADANAC
Frail, B. C., Canada	Ste des Mines and Founderies de Zine de la Vieille-Montagu	
Baelen-Usines, Belgium	Anglem	Vieille-Montagne Bar
Mexica, Yugoslavia	Central European Mines, Limited	*TRECA
Perth Amboy, N. J., U. S.	American Smelting & Refining Co.	*TSUMCO
Joboken, Belgium	The Tsumeb Corporation	*TSUMCO
Hoboken, Belgium Midvale, Utah, U. S.	United State Smelting, Refining & Mining Company	*USS CO
E. Chicago, Ind., U. S.	United States Smelting, Refining & Mining Compars	*U S S CO ELECTRO
Norfolk, Va., U. S.	Virginia Lead Smelting Corp The	†aVIRGINIA
Staten Island, N. Y., U. S. A. Newark, N. J., U. S. A.	Nassau Smelting & Refining Co.	Nassau Blue
Philadelphia, Pa., U. S. A.	Hudson Smelting & Refining Co. Bers & Co., Inc.	Hudson Sehuylkill
*Deliverable against Commodity	Exchange, Inc., Lead Contracts without Certificate of A	MAY.
**Subsidiary of the American M		
	Exchange, Inc., Loud Contracts with Cartificate of Assay of	one of the Official Assessment of the France
aSubsidiary of National Lead C		THE VILLE AND VETT OF THE EXCENT
METALS, SEPTEMBER, 1957		

METALS, SEPTEMBER, 1957

Copper Statistics Reported by Copper Institute

Combined Totals in U. S. A. and Outside U. S. A.

	Crude P	roduction	Refined	Deliveries to	Refined Stock	Stock I	ncreases or De	creases
-	imary	Secondary	Production		End of Period	Blister	Refined	Tota
955 Total 2,6		133,065	2,728,309	2,744,391	221,331	+18,418	- 8,552	+11,1
956								
	41,295	10,005	242,814	224,546	315,572	+ 8,486	+12,347	+ 20,8
pt 25	21,401	8,126	217,522	219,479	309,351	+12,005	-6.221	+ 5,7
	55,442	13,924	263,752	234,080	333,952	+ 5,614	+24,601	+30,2
ov 24	49,360	10,204	254.377	239.181	345.181	+ 5.187	+11.229	+16,4
	36,512	13,124	250,173	237,003	354,420	- 537	+ 9,239	+ 8,
tal 2,86	52,839	152,536	2,987,060	2,830,407	354,420	+28,415	+133,089	+161,
57								
n 24	40,790	15.514	256,729	263,014	344.972	- 245	- 9,448	- 9,
	35.679	10,577	242,952	214.796	370,128	+ 3,304	+25.156	+28.
	44.407	11.850	264,649	263,271	369,256	- 8,392	- 872	- 9.
	34.909	12,369	252.857	253,295	363,463	- 5,579	- 5.793	-11.
	49,564	10,456	275,323	256,379	376,761	-15,303	+13.298	- 2,
	52,249	9,671	251,802	220.052		+10.119	+23,533	+ 33.
					402,294			+22,
	24,304	7,403	239,365	204,035	430,301	- 7,658	+30,007	
g 22	26,682	7,697	232,169	231,871	424,419	+ 4,210	- 5,8 8 2	16,
			I	n U. S. A.				
35 Total 1,03	36,702	124,760	1,467,448	1,446,354	61,554		+14,446	
56								
	91,282	9,545	122,108	109,618	96,450		+8,506	
pt 8	88,659	7,367	112,484	104,486	93,202	*.* * * * *	-3.248	* * *
t !	95.109	12,621	136,379	113,353	106,120		+12,918	
v !	90.573	8.940	132 970	114.524	116.515		+10.393	
	92,231	12,352	129.839	99,594	120,645		+4.129	
tal 1,13		139,584	1.580,287	1,465,899	120,645		+50,091	
57	00,101	100,001	1,000,201	1,100,000	120,010		100,001	
	94.783	14.683	139.150	119.925	118.564		- 2.081	
	92,508	8,941	134.291	101.565	136.502	* * * * * *	$\frac{-2,001}{+17.938}$	
						*****		* * *
	96,363	10,355	143,961	113,571	140,191		+ 3,689	* * *
	98,910	11,160	144,013	116,716	139,842		- 349	
	96,334	9,618	151,045	120,336	155,365	* * * * * *	+15,523	* * *
	95,893	8,792	134,270	101,993	165,549	*****	+10,184	
ly	86,141	6,386	127,434	84,702	191,515		+25,966	
ıg {	89,312	8,978	128,480	107,522	192,931		+ 1,416	
			Outs	ide U. S.	Δ *			
55 Total 1,5'	76 960	8.305	1.260.861	1.298.037	159,777		-21.752	
56	10,500	0.000	1,200,001	1,200,001	103,111		21,102	
ly 14	48,395	787	115,232	101,102	215,281		+ 9.731	
	50.013	460	120,706	114,928	219.122		+ 3,841	
	32.742	759	105,038	114.993	216.149		-2.973	
	60.333	1.303	127.373	120.727	227.832		+11.633	

	58,787	1,264	121.407	124,657	228.665	* * * * * *		* * *
c		772	120,334	137,409	233,775	* * * * * *	+ 5,110	* * *
tal	29,705	12,952	1,406,773	1,364,508	233,775		+73,998	
	46,097	831	117,579	143,089	226,408		- 7,367	
	43,171	1.636	108,661	113,231	233,626		+ 7,218	
	48.044	1.495	120,688	149,700	229,065		- 4.561	
	35.999	1,209	108,844	136.579	223,621		- 5,444	
	53,230	838	124,278	136,043	221,396		- 2,220	
					234,745	*****		***
	56,356	879	117,531	118,059			+13,349	
	38,163	1,017	111,931	119,333	238,786		+ 4,041	
ig 13	37.370	719	103.689	124.349	231,488	*****	-7,298	

Producers' Price, Del. Valley Monthly Average Prices (Cents Per Pound)				Electrolytic Copper Custom Smelters' Price, Del. Valley Monthly Average Prices (Cents Per Pound)				Lake Copper Producers' Price Delivered Monthly Average Prices (Cents Per Pound)						
-	1954	1955	1956	1957		1954	1955	1956	1957		1954	1955	1956	1957
Jan.	29.88	30.24	43.00	36.00	Jan.	29.75	30.48	50.22	34.87	Jan.	30.00	30.12	43.00	36.00
Feb.	29.88	33.00	44.03	33.318	Feb.	29.75	33.00	52.07	32.273	Feb.	30.00	33.00	43.783	33.182
Mar.	29.93	33.222	46.00	32.00	Mar.	29.866	33.667	53.11	30.952	Mar.	30.00	33.56	46.00	32.00
Apr.	29.98	36.00	46.00	32.00	Apr.	29.965	36.00	48.88	31.24	Apr.	30.00	36.00	46.00	32.00
May	30.00	36.00	46.00	32.00	May	30.00	36.00	44.221	30.163	May	30.00	36.00	46.00	32.00
June	30.00	36.00	46.00	30.955	June	30.00	36.00	40.00	29.60	June	30.00	36.00	46.00	30.90
July	30.00	36.00	41.56	29.25	July	30.00	36.00	38.14	28.39	July	30.00	36.00	41.68	29.25
Aug.	30.00	37.81	40.00	28.639	Aug.	30.00	40.14	39.32	27.862	Aug.	30.00	37.46	40.00	28.611
Sept.	30.00	43.00	40.00		Sept.	30.00	50.00	39.00		Sept.	30.00	43.00	40.00	
Oct.	30.00	43.00	39.308		Oct.	30.00	45.99	37.192		Oct.	30.00	43.00	39.321	
Nov.	30.00	43.00	36.00		Nov.	30.00	45.84	35.96		Nov.	30.00	43.00	36.00	
Dec.	30.00	43.00	36.00		Dec.	30.00	49.42	35.45		Dec.	30.00	43.00	36.00	
Ave.	29.27	37.522	41.992		Aver.	29.944	39.38	42.797		Aver.	30.00	37.51	41.975	
20											2477		-	

Fabricators' Copper Statistics

(In tons of 2,000 pounds)

	Fabricators' Stocks of Refined Cop.	Unfilled Purchases of Refined by Fab. from Producers	Fabricators' Working Stocks	Unfilled Sales by Fabricators to Customers	Actual Copper Consmd. by Pabricators	Excess Fabricators' Stocks Over Orders Bkd.
1951						
Tota1	280,402	32,147	295,385	303,050	1,392,111	-285,886
1952			,	/	-,,	
Total	333,455	32,652	292,157	275,312	1,389,451	-201,362
1953						
Total	380,881	25,022	309,664	170,917	1,375,869	 74,678
1954						
Total		****			1,232,090	
1955	011 005	05.020				
Mai.	311,235	85,859	301,937	187,827	143,544	-92,670
Apr.	316,575	88,992	304.117	205,308	115,073	-103,858
May	327,343	111,715	309,219	323,279	113,485	-102,440
June	827,696	126,703	309,972	234,578	132,377	-90,151
July	812,587	165,505	301,048	286,095	75,846	-109,051
Aug.	304,097	150,854	303,089	283,653	97,688	-131,791
Sept.		133,391	314,111	270,102	113,628	-115,826
Oct.	353,469	135,075	313,048	275,255	115,453	- 99,759
Nov.	373,314	139,855	313,779	283,953	122,332	— 84,563
Dec.	389,974	139,094	314,145	293,264	127,006	-78,341
Total					1,412,287	*****
1956	000 000		****	000 010		0 M F 0 0
Jan.	376,753	143,815	312,128	305,942	138,711	-97,502
Feb.	388,823	135,637	319,279	282,314	130,923	- 77,133
Mar.	and the second second	140,348	319,056	291,465	135,746	 78,030
Apr.	413,979	135,071	319,247	266,239	118,839	- 36,436
May		131,023	318,592	249,352	122.253	- 1,838
June		114,223	324,970	227,097	113,835	+ 13,282
July	465,015	109,040	334,584	220,810	81,275	18,661
Aug.		115,295	338,818	221,975	117,937	+ 12,181
Sept		114,981	338,488	204,154	115,867	+ 18,018
Oct.	440.706	112,893	336,856	198,517	119,440	+ 18,226 $+$ 31,365
Nov.	435,216	110,792	335,829	178,814 183,834	119,441 99,223	+ 31,365 $+$ 34,737
Dec.	437,187	117,601	336,217		1,416,278	
Tota 1957		*****		*****		*****
Jan.	435,635	107,231	335,944	178,326	119,517	+ 28,596
Feb.	422,266	110,174	334,542	178,913	114,298	+ 18,985
Mar.		104,551	338,454	164,623	106,170	+ 30,884
Apr.	429,708	98,638	335,921	164,410	117,041	+ 28,015
May		92,943	336,697	170,476	115,355	+ 20,622
June		82,919	340,743	153,042	110,527	+ 16,039
July	432,918	85,728	341,684	144,410	77,991	+ 32,552

Scrap Copper Receipts by Custom Smelters and Refineries in United States*

					(In S	hort T	ons)				
		1948	1949	1950	1951	1952	1953	1954	1955	1956	1957
Jan.		10,172	17,084	15,763	6,640	4.528	6,486	9.859	11,047	14,322	17,506
Feb.		11,890	20,238	12,500	5.153	3.633	10.337	8,490	15,198	14.497	11.145
Mar.		11,954	20,678	13,538	7.912	5,243	19,991	9.738	12,198	15,921	13,934
Apr.	* *	15,125	15,968	12,304	8,553	6,214	16,583	9.004	13.162	17,233	14,288
May		16,357	14,237	8,749	8,458	8,033	10,857	8,687	15,133	20,805	12,397
June		11,178	8,809	20,523	8,628	4.425	10.945	13,399	14.765	14.758	11.949
July		8,370	7,782	10,040	6,642	5,188	9,063	10,260	9,988	12,632	8,926
Aug.		17,081	8,246	10,452	6,113	5.003	7,137	10,100	12,197	12,510	11,645
Sept.		16,001	10.980	4,903	3,561	4.667	9.042	10,641	15.037	9,518	
Oct.		10,854	6.401	9,459	3,336	4,602	10,065	11,662	12,897	15,570	
Nov.		7,625	15,347	9.237	3,179	4.724	7.815	10,879	9.865	11,369	
Dec.		11,826	10,533	7,178	4,538	6,208	11,476	14.876	13,180	14,613	2 8.0
Total		147,931	156,303	142,067	71,812	62,470	129,798	127,449	154,714	173.748	
	-										

^{*} As compiled by Copper Institute.

Brass and Bronze Ingot Monthly Shipments

(Net Tons)

The following figures showing the combined shipments of ingot brass and bronze are compiled by the Ingot Brass and Bronze Industry and represent in excess of 95 per cent of the deliveries of the entire industry.

repre	esem	in ex	rcess or	30 be	r cent	or rue	delive	ries of	t the e	nure i	ndustr	у.
		1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957
Jan.		27,841	26,998	19,456	18,874	28,415	28,315	24.423	20,661	25.201	27.736	25.681
Feb.		24.686	22,487	15,026	18,487	27,168	24.211	25,429	19,920	25.349	24.949	20.769
Mar.		17,477	24,282	14.550	22,494	31.997	23.890	28.256	23.653	29.713	28.310	21.948
Apr.		24,577	25,177	10,695	22,118	30,472	22,547	25,044	24,746	27.641	25,808	23.507
May		. 19,526		11,114	23,643	33,267	21,740	21,660	22,269	23,708	23,437	22,037
June		16,929	24,401	9,696	25,093	33,817	21,274	20,818	22,348	23,141	18.842	18,888
July				10,220	21,609	32,016	18,947	19,321	17,074	18,513	17,364	16,695
Aug.				14,194	26,689	25,285	21,807	20,156	21,684	27,018	23,812	
Sept.				16,208	28,811	22,285	22,770	21,463	22,464	26,349	20,929	
Oct.		22.800		18,026	32,240	23,124	25,811	22,280	24.080	25,228	23,045	
Nov.		21,666		18,488	31,748	23,544	23,441	21,860	23,061	25,102	21,818	
Dec.		23,862	20,954	17,969	28,575	20,987	22,983	20,541	21,274	21,448	18,046	****
Total		263,711	279.500	175,643	303.563		277,736		263,233	298,406	274,096	

Mine Production of Copper

	(U. S	In short	of Mines) tons) Western	Total
953				
Itl.	38,900	2,374	885,174	926,448
954 Ptl. 955	40,302	1,925	793,241	835,472
Ptl. 956	68,622	2,140	921,838	992,600
Jan.	6,674	163	88,277	95,114
Feb.	6,688	164	82,519	89,371
Mar.	7,347	198	90,599	98,104
Apr.	6,821	195	88,592	95,608
May	6,960	191	92,531	99,682
June	6,720	173	88,049	94,942
July	6,132	185	74,283	80,600
Aug.	6,638	219	85,224	92,067
Sept.	6,195	163	78,934	85,292
Oct.	6,405	183	87,102	93,690
Nov.	6,498	150	81,984	88,632
Dec.	6,603	150	80,452	87,205
Ttl. 1957	79,681	2,130 1	1,018,496	1,100,307
Jan.	6,607	172	86,431	93,210
Feb.	6,082	163	84,011	90,256
Mar.	6,714	196	88,257	95,167
Apr.	6,579	237	86,627	94,443
May	7,198	200	85,460	92,858

Average Custom Smelters'
Scrap Buying Prices
(Cents per pound for carload lots del.

const	imers' v	vorks)	010 401
Const No. 1 Copper Scrap	No. 2 Copper Serap	Light Capper Serap	Re- finery Bress*
1905			
Av37.035	35.535	33.59	32.70
June33.32	31.82	29.32	29.03
July32.69	31.19	28.69	28.98
Aug34.269	32.769	30.269	30.75
Sapt33.56	32.06	29.81	29.92
Oct30.964	29.464	27.214	27.44
Nov 30.51	29.01	26.76	27.50
Dec30.423	28.923	26.673	27.42
Av36.25	34.75	32.33	32.47
Jan 29.30	27.80	25.55	26.30
Feb 26.47	24.97	22.72	23.75
Mar 26.58	25.08	22.83	24.52
Apr 26.895	25.395	23.145	24.695
May25.985	24.485	22.235	23.735
June 25.353	23.853	21.603	23.35
July24.21	22.71	20.46	22.03
Aug 23.26	21.76	19.51	21.29

*Of dry content for material having a dry copper content in excess of 60%.

Brass Ingot Makers' Scrap Copper Buying Prices

(Cents per per 60,000 lbs		. refine	
No. 1 Copper Scrap	No. 2 Copper Serap	No. 1 Compesition	Heavy Tellow Brass
1955			
Av36.63	35.02	29.905	22.35
June .33.32	31.82	26.37	18.40
July32.69	31.19	26.89	18.43
Aug34.269	32.769	29.833	20.463
Sept33.26	32.25	30.07	20.92
Oct30.687	29.187	28.058	19.538
Nov 30.39	28.89	26.69	18.91
Dec30.195	28.695	27.50	18.96
Av36.17	34.67	30.483	21.34
Jan 29.27	27.77	26.59	18.55
Feb 26.47	24.97	23.50	16.65
Mar 26.58	25.08	22.83	17.40
Apr 26.895	25.395	23.50	17.50
May 25.985	24.485	23.144	17.144
June 25.353	23.853	22.83	16.65
July 24.21	22.71	22.01	15.71
Aug 23.26	21.76	21.56	15.63

United States Lead Statistics of Primary Refineries (American Bureau of Metal Statistics) (In tons of 2,000 lbs.)

	Stock At Beginning	Production Primary & Secondary	Total Supply	Stock At End	Domestic Shipments
1953		533,883	577.443	81,152	488,437
1954		551,618	632,770	92,719	475,551
1955					
October	30,753	53,747	84,500	29,913	52,062
November	00 0.0	52,623	82,536	28,855	51,370
December		50,448	79,303	31,089	48,171
Total		547,153	639,872		531,339
1956		,	,		
January	31.089	51,306	82,395	32,469	49,746
February		49,475	81,944	41,450	39,411
March		54,174	95,624	52,089	39,344
April		52,976	105,065	53,958	44,986
May		47,961	101,919	50,460	40,703
June	50,460	47,367	97,827	45,951	41,458
July		48,479	94,430	49,134	36,483
August	. 49,134	48,404	97,538	39.304	48,404
September		53,530	92,834	40,542	47,519
October	40,542	54,815	95,357	42,314	45,254
November		50,744	93,058	37,192	47,349
December		54,063	91,254	41,181	44,191
Total		613,293	644,382		529,484
1957					
January		50,854	92,035	42,905	40,549
February	42,905	48,102	90,917	48,699	37,517
March	48,699	52,357	101,056	46,184	38,225
April		56,170	102,354	57,444	37,583
May		51,718	109,162	58,085	35,334
June		48,203	106,288	64,861	37,257
July	64,861	47,100	111,961	68,009	38,582

In instances where the figures are not in balance it is due to shipments to other than domestic consumers.

Industrial Classification of Domestic Lead Shipments

		-			-			
	(American	Bureau of	Metal	Statistics)	(In	tens of	2,000 [ha.)	
	Cable	Amm.	Fo	ll Batt'y	Brass Making	Sun- dries	Job- bers	Unclas- sified
1952	74,616	30,809	1,374	77,238	5,160	50,943	5,671	246,283
1953	76,283	34,415	2,136	80,389	5,716	55,936	6,390	227,222
1954	75.412	30.246	2,811	66,088	5.192	57,369	9,170	229,264
1955	10,112	00,220	2,011	00,000	0,102	01,000	0,210	220,201
Jan.	7.044	1.570	36	5,158	218	4,451	857	21,122
Feb.	5.869	3,200	348		289	4,796	1.013	24,373
Mar.	6,538	2,340	614		240	3,807	1,167	20,778
Apr.	5.909	2,625	201		463	5,178	1,234	22,735
May	6,145	2,950	251		321	4,435	1.145	22,756
June	6,623	950	50		290	5,175	1,293	23,816
July	2,313	150	307		100	3,763	946	14,603
Aug.	5,772	2.800	210		290	3,741	1,230	22,632
Sept.	6,552	2,295	415		354	4,711	1,149	22,980
Oct.	6,772	3,026	85	9,819	564	4,899	1,287	25,610
Nov.	6,606	2,433	70		387	3,795	874	23,330
Dec.	6,275	3,260	35	7,508	449	4,289	839	25,516
Total 1956	72,418	27,599	2,622	88,461	3,960	52,994	13,034	270,251
Jan.	7,777	3,075	200		290	8,538	917	22,394
Feb.	5,974	2,435	384		275	3,592	871	19,897
Mar.	6,786	1,300	101		321	3,915	1,331	20,687
Apr.	6,744	2,950	310		260	3,522	1,376	24,985
May	6,490	2,825			131	3,513	964	21,753
June	8,502	2,150			186	3,645	1,021	21,787
July	3,497	904			80	2,859	1,453	22,683
Aug.	7,712	1,497	88		713	4,443	1,262	26,358
Sept.	6,354	1,850	135		230	5,038	1,339	26,270
Oct. Nov.	7,988 6,096	1,715 2,351	135		286 226	4,955 5,573	1,493 792	21,574 23,755
Dec.	6.440	1.449	85		160	7,258	394	22,573
Total	80,360	24.501	1,435		3.158	56,851	13,213	274,716
1957								
Jan.	5,297	2,800	200		671	4,002	1,191	19,502
Feb.	5,103	1,450	350		508	4,820	625	18,112
Mar.	5,956	752	* * *		686	4,614	1,064	18,674
April	6,731	2,250	100		909	2,958	1,040	17,453
May June	6,976 3,726	2,200	120		270	3,871	634	16,558
July	5,726	2,250 1.650	75 105		666	5,071	1,087	20,620
July	0,449	1,050	100	5,332	566	5,310	1,110	19,260

Lead Prices at New York

	(Com	(Common Grade)								
	Monthly (Cent									
	1954	1955	1956	1957						
Jan.	13.26	15.00	16.16	16.00						
Feb.	12.82	15.00	16.00	16.00						
Mar.	12.94	15.00	16.00	16.00						
Apr.	13.91	15.00	16.00	16.00						
May	14.00	15.00	16.00	15.385						
June	14.11	15.00	16.00	14.32						
July	14.00	15.00	16.00	14.00						
Aug.	14.06	15.00	16.00	14.00						
Sept.	14.60	15.12	16.00							
Oct.	14.975	15.50	16.00							
Nov.	15.00	15.50	16.00							
Dec.	15.00	15.56	16.00							
Av	14.06	15 14	16 013							

Lead Sheet Prices

	(To Job	bers, Fu	Il Sheet	s)
	Monthly	y Avera	ge Price	S
	(Cent	ts per j	pound)	
	1954	1955	1956	1957
Jan.	18.26	20.00	21.66	21.50
Feb.	17.82	20.00	21.50	21.50
Mar.	17.94	20.00	21.50	21.50
Apr.	18.91	20.00	21.50	21.50
May	19.00	20.00	21.50	20.885
June	19.11	20.00	21.50	19.82
July	19.00	20.00	21.50	19.50
Aug.	19.06	20.00	21.50	19.50
Sept.	19.60	20.12	21.50	
Oct.	19.975	20.50	21.50	
Nov.	20.00	20.50	21.50	
Dec.	20.00	20.56	21.50	

Battery Shipments

The following table shows replacement battery shipments in the United States as compiled by the Business Information Division of Dun & Brad-Street, Inc., for the Association of American Battery Manufacturers:

2,350 2,548 2,800 2,739 2,475 1,844	2,078 2,852 3,120 3,120 2,697 2,625	2,178 2,571 2,711 3,015 2,592 2,265	2,477
2,548 2,800 2,739 2,475	2,852 3,120 3,120 2,697	2,571 2,711 3,015	
2,548 2,800	2,852 3,120	2,571 2,711	
2,548 2,800	2,852	2,571	
2,350	2,078	2,178	2,477
1,883	1,842	1,807	1,878
1,429	1,614	1,761	1,604
1,180	1,315	1,368	1,178
1,226	1,356	1,348	1,254
1,461	1,691	1,340	1,960
1,836	1,518	2,058	2,638
1954	1955	1956	1957
	In tho 1954 1,836 1,461 1,226 1,180 1,429 1,883	The thousands of 1954 1955 1,836 1,518 1,461 1,691 1,226 1,356 1,180 1,315 1,429 1,614 1,883 1,842	1,836 1,518 2,058 1,461 1,691 1,340 1,226 1,356 1,348 1,180 1,315 1,368 1,429 1,614 1,761 1,883 1,842 1,807

Lead Stocks at Primary U. S. Smelters and Refiners

(American Bureau of Metal Statistics)

1955 1919	
in process at smelters & to refineries refineries refineries pig montial lead S 1955 July 1	
July 1 58,182 14,707 2,941 30,579 34,432 10,233 151 Aug. 1 66,476 10,065 1,303 26,792 30,077 9,779 143 Sept. 1 75,057 17,183 3,744 29,660 26,889 7,252 155 Oct. 1 70,628 19,083 4,217 28,424 23,292 7,461 153 Nov. 1 71,257 20,682 4,276 28,596 21,228 8,085 154 Dec. 1 64,109 20,232 4,377 27,486 19,592 9,263 145 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 145 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 170 May 1 74,837 15,477 2,475 26,682 39,558 10,690	otal tocks
Aug. 1 65,476 10,065 1,303 26,792 30,077 9,779 143 Sept. 1 75,057 17,183 3,744 29,660 26,859 7,252 159 Oct. 1 70,628 19,083 4,217 28,424 23,292 7,461 153 Nov. 1 71,257 20,682 4,276 28,596 21,228 8,085 154 Dec. 1 64,109 20,232 4,377 27,486 19,592 9,263 145 1956 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 145 Mar. 1 71,023 16,406 2,583 27,619 32,855 9,095 156 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 17 May 1 74,887 15,500 2,718 24,181 43,268 10,990 17 June 1 78,987 15,477 2,475 26,682 39,558 10,902 17 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	
Aug. 1 65,476 10,065 1,303 26,792 30,077 9,779 148 Sept. 1 75,057 17,183 3,744 29,660 26,859 7,252 159 Oct. 1 70,628 19,083 4,217 28,424 23,292 7,461 155 Nov. 1 71,257 20,682 4,276 28,596 21,828 8,085 164 Dec. 1 64,109 20,232 4,377 27,486 19,592 9,263 145 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 145 Mar. 1 71,023 16,406 2,583 27,519 32,355 9,095 158 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 177 May 1 74,887 15,477 2,475 26,682 39,558 10,902 174 July 1 81,796 15,877 4,423 28,505 36,4	,074
Sept. 1 75,057 17,183 3,744 29,660 26,859 7,252 155 Oct. 1 70,628 19,083 4,217 28,424 23,292 7,461 155 Nov. 1 71,257 20,682 4,276 28,596 21,828 8,085 154 Dec. 1 64,109 20,232 4,377 27,486 19,592 9,263 145 1956 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 145 Mar. 1 71,023 16,406 2,583 27,619 32,355 9,095 156 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 17 May 1 74,837 15,477 2,475 26,682 39,558 10,690 173 July 1 81,796 15,837 4,423 28,505 36,499 9,4	,492
Oct. 1 70,628 19,083 4,217 28,424 23,292 7,461 155 Nov. 1 71,257 20,682 4,276 28,596 21,828 8,085 154 Dec. 1 64,109 20,232 4,377 27,486 19,592 9,263 146 1956 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 156 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 146 Mar. 1 71,023 16,406 2,583 27,519 32,855 9,095 156 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 176 May 1 74,837 15,477 2,475 26,682 39,558 10,902 171 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,755
Nov. 1 71,257 20,682 4,276 28,596 21,828 8,085 154 Dec. 1 64,109 20,232 4,377 27,486 19,592 9,263 148 1956 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 144 Mar. 1 71,023 16,406 2,583 27,519 32,355 9,095 158 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 177 May 1 74,887 15,500 2,718 24,181 43,268 10,690 171 June 1 78,987 15,477 2,475 26,682 39,558 10,902 174 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,105
1956 Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 142 Mar. 1 71,023 16,406 2,588 27,519 32,855 9,095 155 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 170 May 1 74,837 15,500 2,718 24,181 43,268 10,690 171 June 1 78,987 15,477 2,475 26,682 39,558 10,902 174 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,724
Jan. 1 71,812 16,532 3,764 27,625 21,196 9,893 150 Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 145 Mar. 1 71,028 16,406 2,588 27,519 32,355 9,095 155 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 170 May 1 74,837 15,500 2,718 24,181 43,268 10,690 171 June 1 78,987 15,477 2,475 26,682 39,558 10,902 174 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,059
Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 149 Mar. 1 71,023 16,406 2,583 27,519 32,855 9,095 158 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 179 May 1 74,837 15,500 2,718 24,181 43,268 10,690 177 June 1 78,987 15,477 2,475 26,682 39,558 10,902 179 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	
Feb. 1 70,690 19,082 1,764 25,632 24,080 8,389 149 Mar. 1 71,023 16,406 2,583 27,519 32,855 9,095 158 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 179 May 1 74,837 15,500 2,718 24,181 43,268 10,690 177 June 1 78,987 15,477 2,475 26,682 39,558 10,902 179 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	.822
Mar. 1 71,023 16,406 2,583 27,519 32,355 9,095 158 Apr. 1 72,358 15,655 2,152 28,065 41,800 10,289 17 May 1 74,887 15,500 2,718 24,181 43,268 10,690 17 June 1 78,987 15,477 2,475 26,682 39,558 10,902 17 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,637
Apr. 1 72,358 16,655 2,152 28,065 41,800 10,289 170 May 1 74,837 15,500 2,718 24,181 43,268 10,690 171 June 1 78,987 15,477 2,475 26,682 39,558 10,902 170 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,981
May 1 74,837 15,500 2,718 24,181 43,268 10,690 171 June 1 78,987 15,477 2,475 26,682 39,558 10,902 174 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,319
June 1 78,987 15,477 2,475 26,682 39,558 10,902 174 July 1 81,796 15,837 4,423 28,505 36,499 9,452 176	,194
	,081
	,512
	,094
	,332
	,816
	,485
Dec. 1 82,197 9,095 4,132 25,627 25,360 11,832 158	,243
1957	
Jan. 1 77,918 12,222 2,846 25,092 29,435 11,746 159	,249
	,880
	,975
	,237
	,135
	,107
	,567
Aug. 1 97,111 11,479 2,532 22,917 59,348 8,661 202	,048

Receipts of Lead in Ore and Scrap By U. S. Smelters (a)

(American	Bureau of	Metal Statistics)	(In	Receipts of lead	Total receipts
	Rece	ipts of lead in	ore	in scrap	in ore,
Un	ited State		Total	etc. (b)	& scrap
1952 Total	405,990	98,276	504,266	41,845	546,111
1953 Total	351,183	155,788	506,971	42,994	549,965
1954 Total	336,291	158,081	494,372	49,864	544,236
1955					
July	23,027	3,826	26,853	649	27,502
August	30,249	11,859	42,108	3,942	46,050
September	29,377	14,881	44,258	3,623	47.881
October	30,073	20,845	50,918	5,655	56,573
November	27,736	13,022	40,758	3,802	44,560
December	29,363	24,136	53,499	3,150	56,649
Total	341,595	172,966	514,561	42,996	557,557
1956					
January	27,184	15,704	42,888	6,346	49,234
February	28,569	16,528	45,097	4,577	49,674
March	31,568	17,904	49,472	3,989	53,461
April	31,786	15,224	47,010	4,252	51,262
May	32,715	18,476	51,191	4,711	55,902
June	31,546	16,251	47,797	4,541	52,338
July	29,964	13,476	43,440	3,207	46,647
August	31,112	~ 20,726	51,838	5,885	57,723
September	28,731	16,276	45,007	3,351	48,358
October	33,614	12,350	45,964	5,439	51,403
November	30,553	14,308	44,861	5,141	50,002
December	31,154	15,095	46,252	4,536	50,788
Total	368,499	192,318	560,817	55,925	616,792
1957					
January	30,632	19,961	50,593	4,471	55,064
February	31,410	15,059	46,469	4,564	51,033
March	33,445	18,813	52,258	3,058	55,316
April	31,343	13,042	44,385	2,848	47,233
May	32,138	12,324	44,462	3,431	47,893
June	29,896	19,592	49,488	2,272	51,760
July	29,585	17,936	47,521	2,893	50.414

(a) Receipts of lead in ore are computed on the basis of recoverable lead. Owing to the estimational factor in this, which is probably on the low aids, and also to the possibility that some lead receipts may escape attention, these monthly totals probably underrun the actual production of pig lead. (b) inclusive only of scrap smalted in connection with ereplant some arran reasonable production of the prod

METALS, SEPTEMBER, 1957

N. Y. Lead Price Changes

(Effective	re Date)
1949	Feb. 213.50
Nov. 1612.59	Mar. 413.00
Nov. 2112.00	Mar. 1013.50
1950	Apr. 713.00
Mar. 911.00	Apr. 1612.50
Mar. 1410.50	Apr. 2112.00
Apr. 2010.75	Apr. 2912.50
Apr. 2611.00	May 1812.75
May 411.25	May 1913.00
May 1011.50	May 2613.15
May 1112.00	June 1113.50
June 2311.50	July 2013.75
1951	July 2314.00
June 2811.00	Sept. 1613.50
July 1211.50	1954
July 1312.00	Jan. 1813.00
Aug. 1513.00	Feb. 1812.50
Aug. 2114.00	Mar. 912.75
Sept. 115.00	Mar. 1013.00
Sept. 816.00	Mar. 2613.25
Oct. 2**19.00	Mar. 2913.50
Oct. 3117.00	Apr. 113.75
1952	Apr. 1214.00
Apr. 2918.00	June 214.25
May 217.00	June 1514.00
May 1215.00	Aug. 2514.25
June 2315.50	Sept. 714.60
June 2416.00	Sept. 1514.75
Oct. 715.00	Oct. 414.875
Oct. 1414.00	Oct. 515.00
Oct. 2213.50	1955
Nov. 314.00	Oct. 2315.00-
Nov. 1014.20	15.50
Nov. 1114.50	Oct. 2615.50
Nov. 2014.25	Dec. 2916.00
Nov. 24 14.00	1956
Dec. 2214.25	Jan. 416.50
Dec. 2914.50	Jan. 1316.00
Dec. 3114.75	1957
1953	May 915.50
Jan. 714.50	May 1615.00
Jan. 1214.00	June 11 14.00
**OPS Ceiling.	

Antimonial Lead Stocks at Primary Refineries

(In to	ns of 2,00	0 lbs.)	
End of: 1954	1955	1956	1957
Jan14,691	14,902	8.389	10,487
Feb14,798	12,204	9.095	10,220
Mar 11.985	12,385	10,289	9.794
Apr 11,977	11,740	10,690	9.391
May11.882	11.055	10.902	8.799
June 9.798	10.233	9.452	9.503
July12,210	9,779	10.924	8,661
Aug12,279	7.252	10.074	
Sept14,168	7.461	11.181	
Oct14,846	8.085	11.382	
Nov 14.573	9.263	11.832	
Dec14,789	9,893	11,746	

Antimonial Lead Production by Primary Refineries

		(A.D.M.S.)		
		ons of 2,00		
End of:	1954	1955	1956	1957
Jan	3,768	4,529	5,045	5,113
Feb	4,257	4,777	5,888	5,468
Mar	4,475	6,202	5,526	5,091
Apr	4,470	5,343	5,818	6,183
May	4,373	: 4,737	5,405	6.978
June	3,796	4,792	4,456	4,566
July	5,991	1,153	3,853	5,372
Aug	6,455	2,946	5,343	
Sept	5,869	6,650	6,709	
Oct	5,532	8,016	5,378	
Nov	5,364	7,985	6.993	
Dec	5,255	6,907	5,766	****
Total -	50 075	64 097	00 100	

U. S. Lead Consumption

(Bureau of Mines - In Short Tons)

		-1957-	
Metal Products J	anJune	May	June
Ammunition	22.362	4.626	3.697
Bearing metals	12,300	1.877	1.927
Brass and bronze	12.214	1,955	1.865
Cable covering	63.821	10,273	9.935
	31,944	5.315	6.718
Calking lead	6.462	1.279	999
Casting metals		719	843
Collapsible tubes	4,663		
Foil	2,296	410	246
Pipes, traps, bends	11,525	1,951	1,806
Sheet lead	13,015	1,908	2,339
Solder	35,572	5,438	5,978
Storage battery			
grids, posts, etc.	90.097	15.862	11,904
Storage battery			
oxides	88.383	13.371	12,138
Terne metal	647	98	116
	12,714	1.995	2.062
Type metal	16,114	1,353	2,002
Total	408,015	67,077	62,573
Pigments:			
White lead	7,850	1,381	1,622
Red lead & litharge	40.905	6.678	6.94
Pigment colors	6.241	1.117	1,115
Other*	2,830	420	348
Total	57.826	9,596	10,030
Chemicals:			
Tetraethyl lead	84.654	13.805	14.530
Misc. chemicals	1.898	163	183
		-	-
Total	86,552	13,968	14.713
Miscellaneous uses:	0.400	201	401
Annealing	2,483	381	403
Galvanizing	639	87	53
Lead plating	188	30	5:
Weights & ballast	2,780	449	556
Total	6,045	947	1,06
Other uses			
unclassified	8,438	1,403	1,41
Total reported	†566,876	+92,991	†89,79
Total reported		†92,991	†89,79
		1,000	
Total reported Estimated unreport-	6,000		1,000

^{*} Includes lead content of leaded zinc oxide production.

Based on number of days in month without adjustment for Sundays or holidays.

U. K. Lead Consumption (British Bureau of Non-Ferrous Metal Statistics)

	(In to	ns of 2,2	40 pound	(8)
	(III to	1955	1956	1957
Jan.		29,062	31,012	29,657
Feb.		28,926	30,125	29,219
Mar.		33,225	30,099	29,441
Apr.		28,656	28,186	27,246
May		31,092	29,752	31,574
June		32,627	31,501	28,607
July		26,994	26,963	27,604
Aug.		26,954	25,077	
Sept.		34,291	30,274	
Oct.		34,121	32,057	
Nov.		34,820	32,036	
Dec.		00.000	25,963	

American Antimony

Total ...370,794 353,045

		nly Average		
	-	per lb. in 1955		1957
Jan.	28.50	28.50	33.00	33.00
Feb.	28.50	28.50	33.00	33.00
Mar.	28.50	28.50	33.00	33.00
Apr.	28.50	28.50	33.00	33.00
May	28.50	28.50	33.00	33.00
June	28.50	28.50	33.00	33.00
July	28.50	28.50	33.00	33.00
Aug.	28.50	30.66	33.00	33.00
Sept.	28.50	33.00	33.00	
Oct.	28.50	33.00	33.00	
Nov.	28.50	33.00	33.00	
Dec.	28.50	33.00	33.00	
Aver.	28.50	30.18	33.00	

Consumers' Lead Stocks, Receipts and Consumption (Bureau of Mines — In Short Tons)

	Stocks May 31, 1957	Net Receipts in June	Consumed in June	Stocks June 30, 1957
Soft lead	61,327	54,315	58,579	57,063
Antimonial lead	35,118	19,447	22,180	32,385
Lead in alloys	8,267	3,879	3,969	8,177
Lead in copper-base scrap	2,016	1,443	1,432	2,027
Total	106,728	79,084	*86,160	99,652

Excludes 3,302 tons of lead which went directly from scrap to fabricated products and 332 tons of lead contained in leaded zinc oxide production.

Consumption of Lead by Class of Product

(Bureau of Mines — In Short Tons)

		JUNE			
	Soft lead	Antimonial lead	Lead in alloys	Lead in Copper-base scrap	Total
Metal products	32,297	21,687	3,928	1,432	59,344
Pigments	9,683	15			9,698
Chemical	14,712	1			14,713
Miscellaneous	664	403			1,067
Unclassified	1,223	74	41		1,338
Total	58,579	22,180	3,969	1,432	*86,160

Excludes 3,302 tons of lead which went directly from scrap to fabricated products and 332 tons of lead contained in leaded zinc oxide production.

Lead Imports and Exports By Principal Countries

(A. B. M. S.)

Reported in pigs, bars, etc.; metric tons except where otherwise noted.

IMPORTS

	_	
	1957	
Apr	. May	June
U. S.* (s.t.)25,06	9 22,282	28,002
Denmark 81	3 467	1,607
France 4,13	9 4,165	5,615
Italy† 1,06	2 1,307	
Netherlands 3,57	3 4,186	
Norway 65	8 1,336	
Sweden 58	1,772	
Switzerland 1,04	8 1,044	1,070
U. K. (l.t.)20,80	6 6,385	13,274
India‡ (l.t.) 1,68	3 420	
EXPORT	S	
U. S.* (s.t.) 44	5 98	110
Canada (s.t.) 7,31	4 9,676	7,210
Denmark 12	23 206	349
France 27	72 26	501
Netherlands 69	796	
Switzerland	. 20	
Northern		
Rhodesia‡ (1.t.) 1,20	05 1,328	
Australia‡ (1.t.) 10,91	15 13,152	
Sweden 26	66 1,176	

^{*} Refined.

French Lead Imports (A. B. M. S.)

(In metric tons)

-		-1957	
	May	June	July
Ore (gross			
weight)1	3,428	6,580	7,982
Italy	438		
Morocco1	2,990	6,580	6,982
Fr. Eq. Africa			1,000
Pig lead	4,165	5,615	1,263
Belgium	51	388	
Germany (W.).	325	275	
Spain		100	
Algeria	2	2	21
Morocco	1,867	1,715	112
Tunisia	1,919	3,134	1,130
Other countries	1	1	
Antimonial lead.	503	17	4

U. K. Lead Imports

(British Bureau of Non-Ferrous Metal Stat'stics)

(In tong of 2,240 lbs.)

	,	-1957	
	May	June	July
(Gross Weight)			
Lead and			
lead alloys	6,385	13,274	16,608
Australia	2,698	5,766	12,260
Canada	1,775	5,930	3,250
Belgium	399	300	200
Yugoslavia	100		200
United States		250	251
Peru	799	150	100
Other countries	614	878	347

[†] Includes lead content of scrap used directly in fabricated products.

[†] Includes lead alloys.

[‡] British Bureau of Non-Ferrous Metal Statistics.

Domestic Zinc Statistics

American Zinc Institute

Commencing with January, 1948, all regularly operating U. S. primary and secondary selters are included in this report. Production from foreign ores also is included.

(Tons of 2,000 lbs.)

				(Tone of 2	,000 lbs.	.)			
	Stock				ents -			Unfilled	Daily
	Begin-	Pro-	Domes-	Export &			Stock	Orders	Avg.
	ning	duction		Drawback			at End	at End	Prod.
1950 Tl.	94,221	910,354	849,246	18,189	128,256	995,691	8,884	74,795	2,494
1950 Mo.		75,863	70,770	1,516	10,668	82,974			
1951 Tl.	8,884	931,833	836,800	32,067	39,949	918,816	21,901	50,509	2,553
1951 Mo.	Avg.	77,653	69,733	3,506	3,329	76,568			
1952 Tl.	21,901	961,430	808,343	56,202	36.626	896,171	87,160	45,264	2,627
1952 Mo	. Avg.	80,119	66,945	4,683	3,052	74,681			
1953 Tl.	180,843	971,191	818,850	16,326	42,332	877,508	180,843	35,466	2,661
1953 Mo.	Avg.	80,933	68,238	1,361	3,528	73,126			
1954									
Total	124,277	868,242	787,922	27,929	108,957	924,808	124,077	45,862	
Monthly	Avg.	72,353	65,660	2,827	9,080	77,067			2,379
1965									
lune	63,184	84,458	92,212	1,492	5,335	99,039	48,603	57,281	2,815
July	48,603	84,400	76,812	862	4,039	81,713	51,290	64,056	2,738
Aug.	51,290	84,874	87,042	885	2,153	90,080	46,084	73,632	2.738
Sept.	46,084	83,448	83,664	1,274	2,427	87,365	42,167	52,278	2,781
Oet.	42.167	89,449	85,770	36	1,942	87.748	48,868	61,746	2.886
Nov.	43.868	86,616	91,585	280	1,561	93,426	38,058	64,560	2,921
Dec.	38,058	92,578	87,010	684	1,963	89,657	40,979	72,908	2,986
Total		1 031,018	1,007,619	19,496		1,114,316	40,979	72,908	
Monthly	Avg.	85,918	83,968	1,625	7,267	92,860			2.325
1956									
Jan.	40,979		87,723	1,084	1,155	89,962	41,330	60,717	2,918
Feb.	41.330	86,329	84,727	317	2,782	87,826	39,833	45,255	2,977
Mar.	39,833	91,690	84,204	460	6,821	91,485	40,038	53,070	2,958
Apr.	40,038	88,664	74,789	1,437	4,570	\$0,795	47,907	46,106	2,955
May	47,907	81,283	49,085	287	10,196	69,568	59,577	84,003	2,620
June	59,577	78,821	53,048	539	15,085	68,672	69,226	45,921	2,611
July	69,226	83,080	84,219	811	14,501	49,531	102,775	53,559	2,680
Aug.	102,775	89,549	79,707	1,235	16,075	88,017	104,307	55,769	2,889
Sept.	104,307		73,142	934	18,301	92 377	102.165	64,450	8.00%
Oct.	102,165	93,493	84,991	465	21,392	106,848	88,810	53,425	3,016
Nov.	88,810	91,808	82,478	787	27,168	110,433	70,185	45,866	3,060
Dec.	70,185	98,234	80,772	671	18,354	99,797	68,622	34,913	3,169
Total		1,062,954	869,270		157,014	1,035,311			
Monthly	Avg.	88,850	72,439	752	13,085	86,275			2,904
1957									
Jan.	68,622	93,452	67,273	450	15,377	83,100	78,974	42,922	3,014
Feb.	78,974	88,078	67,441	1,527	10,905	80,163	86,889	56,421	3,146
Mar.	87,040	96,924	67,097	1,558	25,608	94,607	89.357	56,818	3,127
Apr.	89,357	96,506	55,000	1,411	23.931	80.332	105,531	42.102	3,217
May	105,531	96,855	60,729	2,106	26,858	89,683	112,693	31,539	3,124
June	112,693	90,719	54,275	1,358	14.324	68,957	133,455	28,822	3,024
July	133,455	85,744	58,239	4,497	10,310	73,046	146,153	28,296	2,767
Aug.	146,179	84,166	70,318	860	9,871	81,049	149,296	31.663	2,715

U. S. Consumption of Slab Zinc

	Bureau	of Mines			
Ву	Industries	(Short	Tons)		
Galvan-	Die	Brass	Rolled	Zinc oxide	
izers	Casters	products	zinc	& other	Total
1949 Total348,544	197,387	84.257	55,100	17,643	702,931
1950 Total 434,094	281,385	136,451	67,779	27,656	947,365
1951 Total 386,373	266,442	141,456	64,000	28,738	887,009
1952 Total375,563	236,022	155,311	51,508	30,885	849,289
1953 Total403,162	305.346	177,301	53 784	38,037	977,636
1954	000,010	211,002	00,101	00,001	0111000
Total398,599	286,817	107,293	45,979	33,342	876,130
1955		10.,200	20,010	00,012	010,100
June 37,874	32,821	13,305	5,012	3,227	92,239
July 33,433	23,910	7,017	2,832	2,897	70,589
August 38,317	30,168	10,244	5,431	3,027	87,687
September 39,181	31,804	12,672	4.185	3,507	91.849
October 40,030	35,136	13,961	4.714	3,596	97,940
November 38,116	38,616	13,455	3,952	3,636	98,275
December 37.249	36,982	15,003	3,900	3,621	96,755
Total439,694	404.790	144,816	50,363	39,302	1,081,468
1956	403:100	144,010	00,000	00,002	1,001,400
January 38,148	36,554	13,097	4,442	3,665	95,906
February 37,702	31,274	12,678	3,883	3,325	88,862
March 38,662	31,332	12,889	4,433	3,566	90,882
April 37,092	29,226	12,635	4.010	3,359	86,322
May 38,064	26,003	12,218	3,431	1,260	80,976
June 37,005	21,790	8,351	3,454	1,315	71,915
July 12,960	21,425	5,193	3.187	2,883	45.648
August 33,840	26,814	8,420	4,222	2,959	76,255
September 37.313	26,998	8,370	3,397	3.280	79,358
October 40,875	34.985	10.164	4.158	3,695	93,877
November 36,767	32,812	9,581	3,625	3,539	87,224
December 32,790	33,238	8,799	3.140	3,405	82,272
Total 421.218	352.451	122,395	45.382	36,251	988.097
1957	002,101	144,000	10,002	30,231	300,031
January 34,337	37.517	10,800	3.502	3,434	90.490
February 31.686	32,520	9,156	3,284	3.206	80,752
March 30,747	30.946	8.860	3,553	3,378	78,384
April 30,631	29,166	9,491		3,300	77.489
May 30,537	28,423	9,563	3.389	3,097	75,909
June 29,907	27.688	8,710	3,613	2,646	73,464
	21,000	0,110	0,010	2,010	10,404

Prime Western Zinc Prices

	(Cer	ts per p	ound)	
	(In ton	s of 2,240	pounds)	
	1954	1955	1956	1957
Jan.	9.76	11.50	13.46	13.50
Feb.	9.375	11.50	13.50	13.50
Mar.	9.66	11.50	13.50	13.50
Apr.	10.25	11.93	13.50	13.50
May	10.29	12.00	13.50	11.933
June	10.96	12.25	13.50	10.84
July	11.00	12.50	13.50	10.00
Aug.	11.00	12.50	13.50	10.00
Sept.	11.44	12.96	13.50	
Oct.	11.50	13.02	13.50	
Nov.	11.50	13.00	13.50	
Dec.	11.50	13.00	13.50	
Av.	10.69	12.305	13.497	****

High Grade Zinc Prices

(Delivered)

N. Y. Monthly Averages

	(Cen	its per pe	ound)	
	1954	1955	1956	1957
Jan.	11.11	12.85	14.81	14.85
Feb.	10.725	12.85	14.85	14.85
Mar.	11.01	12.85	14.85	14.85
Apr.	11.60	13.28	14.85	14.85
May	11.64	13.35	14.85	13.28
June	12.31	13.60	14.85	12.19
July	12.35	13.85	14.85	11.35
Aug.	12.35	13.85	14.85	11.35
Sept.	12.79	14.31	14.85	
Oct.	12.85	14.37	14.85	
Nov.	12.85	14.35	14.85	
Dec.	12.85	14.35	14.85	
Av.	12.04	13.655	14.847	

U. K. Zinc Consumption

British Bureau of Non-Ferrous Metal Statistics

	(In	Tons	of	2,240	Pounds)	
		195	5	15	956	1957
Jan.		29,1	92	29	,779	28,485
Feb.		28,8	14	29	,568	26,276
Mar.		33,4	51	28	,650	27,049
Apr.		27,7	41	25	,348	24,247
May		29,2	37	27	,922	29,589
June		31,4	67	26	6,650	25,202
July		23,6	95	23	3,826	25,934
Aug.		23,2	61	18	,867	
Sept.		30,0	80	25	,470	
Oct.		29,4	60	27	,784	
Nov.		31,5	16	27	,713	
Dec.		28,6	83	24	1,134	
Tot	tal .	346,5	97	315	.711	

Mine Production of Zinc in United States

(U. S. Bureau of Mines)

Mine Production of Lead in United States

(U. S. Bureau of Mines)

	(1	n short to	ons)		Eastern	(In ahort Central	Western	Total
	Eastern	Central	Western		States 1952	States	States	U.S.
1952	States	States	States	U.S.*	Ttl. 11,252	150,302	228,607	390,161
Total	185,939	94,410	385,652	666,001	1953			
1953 Total	183,612	57.300	293,818	534,730	Ttl. 9,970	136,650	188,776	335,412
1954					1954 Ttl. 8,608	138,940	169,804	317,352
Total	166,487	63,100	234,942	464,539	1955			
Total	163,230	73.630	277,811	514,671	Dec. 771	13,628	13,403	27,802
1956					Ttl. 10,379	145,640	177,409	333,409
Feb.	13,975	5,236	23,506	42,717	1956 Feb. 1,141	12,100	15,009	28,250
Mar.	15,058	5,740	26,975	47,773		13.232	16,516	30,950
Apr.	14,172	5.098	25,618	44,888	Mar. 1,202		16,729	29,705
May	14,834	5.557	26,840	47,232	Apr. 1,028	11,948		29,105
June	13,730	5,228	26.135	45.093	May 1,091	12,497	16,387	
July	13,028	5,364	24,571	42,963	June 897	11,492	17,092	29,481
Aug.	14,559	5.425	25,453	45,437	July 749	11,459	15,761	27,969
Sept.	13.567	4.628	23.785	41.980	Aug. 879	12,760	16,991	30,630
Oct.	17.439	4.815	26,607	48.861	Sept. 868	10,632	15,915	27,415
Nov.	15.604	4.566	25,279	45,449	Oct. 879	12,698	17,843	31,520
Dec.	15.513	4.160	24.411	44.084	Nov. 862	10,779	16,862	28,503
Total	175,310	61,080	301,253	537,643	Dec. 804	10,670	15,635	27,109
1957	110,010	02,000	001,200	001,010	Ttl. 11,395	141,900	195,034	348,329
Jan.	18.586	4.916	25,864	49,186	1957			
Feb.	15.989	4,658	25,200	45.847	Jan. 1,002	12,513	16,714	30,229
Mar.	17.834	5.156	27,430	50,420	Feb. 942	11,730	16,464	29,136
Apr.	18,245	4,912	27,598	50,755	Mar. 968	11,875	18.022	30.865
May	17,066	1.744	27,250	46,060	Apr. 1,053	12,695	17.167	30,915
	16,981	2.855	25,190	45,026	May 988	11,107	17,760	29,855
June	10,901	4,000	20,190	10,020	June 648	10,569	15,230	26,447

*Includes Alaskan output in some months.
*Includes Alaskan output in some months.

Mine Production of Recoverable Silver in United States

(U. S. Bureau of Mines)

	(In Fine	Ounces)		
Eastern		Western		
States	Missouri	States	Alaska*	Total
1953 Total158,707	223,500	36,354,685	39.111	36.776.003
1954 Total142,180	283,600	36,121,368	35,140	36,582,288
1955 Total159,038	438,000	36,103,723	33.804	36,734,565
1956	200,000	00,200,120	00,001	00,102,000
April 43,270	32,050	3,196,813	61	3,272,194
May 46,770	33,300	3.063.179	770	3.144.019
June 46,753	30.610	3.097.297	1.595	3.176.255
July 51,664	31.160	2.697.372	4.171	2.874.367
August 45,914	35.180	3.239.671	6.333	3.327.098
September 46,305	28,700	2,925,332	5,666	3,006,003
October 42,808	34.510	3.288.177	4,942	3,370,437
November 46,379	29,000	3.009.312	2,400	3,087,091
December 45.528	25,000	2,759,108	750	2,830,386
Total553,982	377.200	36.169.267	26,700	37,127,149
1957	,	,,	,	- 1,1-1,1-10
January 47.538	19.400	3,156,768	175	3,223,881
February 46,433	18.660	3,045,754	345	3,111,212
March 44,845	18,700	3,361,932	141	3,425,618
April 43,576	20,300	3,211,264	653	3,275,793
May 46,738	19,600	3,247,200	5,839	3.319.377
*Alaska totals based				0,010,011

*Alaska totals based on mint and smelter receipts.

Production of Primary Aluminum in the U. S.

(U. S. Bureau of Mines)

				-				
				(In shor	t tons)			
	1950	1951	1952	1953	1954	1955	1956	1957
Jan.	50,023	67,954	76,934	89,895	116,247	128,203	140.394	147,029
Feb.	54,493	62,740	72,374	92,649	110.483	116,236	132,763	119.059
Mar.	58,747	70,022	77.069	104,460	122,339	130,272	145,895	135,706
Apr.	58,024	67,701	76,880	102,071	120,434	126,394	144,726	139,152
May	51,929	67,720	80,803	105,464	125,138	131,128	150,800	145.174
June	60,400	67,454	77,476	104,152	120,758	127,634	145,726	138.007
July	63,518	72,698	78,368	109,285	126,161	132,669	151.624	142,157
Aug.	63,006	73,816	85,175	110,545	125,296	133,551	92,406	143,448
Sept.	54,449	69,429	76,882	109,333	120,332	130,606	132,316	
Oct.	62,915	72,647	77,312	108,219	125,089	134,655	149.125	
Nov.	62,276	72,246	74,639	105,636	121,252	133,689	145.081	
Dec.	65,897	72,454	83,419	110,291	127,056	140,748	148,391	
Total	718,622	836,881	937,330	1,252,013	1,460,565	1,565,721	1,679,427	

Mine Production of Gold in United States

(U. S. Bureau	of Mines)	
Eastern	(In fine o		
States 1953	States	Alaska*	Total
Ttl. 1,529	1,689,668	273,479	1,964,676
Ttl. 1,731	1,577,216	252,794	1,831,741
Ttl. 2,026	1,634,625	247,535	1,884,186
Feb. 154	130,368	10	130,532
Mar. 198	134,421	55	134,674
Apr. 156	136,227	522	136.911
May 175	141,240	5.085	146,494
June 199	139,541	13,112	152,852
July 45	126,628	32.515	159.188
Aug. 178	136,812	45,529	182,519
Sept. 194	137,561	40,564	178,319
Oct. 194	130,665	35.901	166,760
Nov. 206	133,456	25,506	159.162
Dec. 178	129,139	5,506	134.817
Ttl. 1,998 1957	1,607,930	204,300	1,814,228
Jan. 183	131,954	1,134	133,271
Feb. 153	124,555	1,495	126,203
Mar. 182	137,404	1,076	138,662
Apr. 168	130.116	97	130,381
May 165	137,291	860	138,316

* Alaska totals based on mint and smelter

U. S. Silver Prous.

(A.B.M.S.)
(In thousands of ounces; commercial bars, 0.999 fine, and other refined forms)

Dom. for. Tetal

Dom. for. Tetal

23,4697 37,764 72,461

39,422 77,481

25,881 1952 Total 1953 Total 1954 Total 1955 Total 33,101 32,780 65.881 1956 7,408 7,648 7,340 6,089 6,614 4,749 6,666 January ... February ... 3,615 4,033 3,790 2,898 2,905 3,550 March April May June 3,191 3,709 2,248 2,501 July 3,828 2,838 August 3,035 3,818 6,853 September . 2,828 3,002 5,830 October ... 3,454 3,125 6,579 November . 2.886 2.685 5,571 December ... 3.168 3,802 6,970 78,317 38,157 Total 40,160 1957 January ... February ... 2,997 2,877 5,874 2,925 2,876 5,801 March 3,360 3,166 6,526 April 3,735 2,807 6,542 May 2,486 1,388 3,874 June 3,386 2,880 6,266 July 2,859 3,452 6,311

The separation between silver of fereign and domestic origin on the basis of refined bars and other refined forms is only approximate.

Includes purchases of crude silver by the U.S. Mint.

Average Silver Prices

	-			
	(Cent	s per fine 1955	ounce) 1956	1957
_				
Jan.	85.25	85.25	90.357	91.375
Feb.	85.25	85.25	90.90	91.375
Mar.	85.25	85.25	91.138	91.375
Apr.	85.25	87.08	90.875	91.375
May	85.25	88.928	90.75	91.307
June	85.25	89.71	90.46	90.456
July	85.25	90.49	90.14	90.31
Aug.	85.25	90.75	90.614	90.909
Sept.	85.25	90.795	90.75	
Oct.	85.25	91.794	90.722	
Nov.	85.25	91.46	91.375	
Dec.	85.25	90.45	91.375	
Ave.	85.25	89.116	90.79	
Note	- The	averages	are based	en 4he

Price of refined bullion imported on or after August 31, 1943.

U. S. Copper Imports

(A.B.M.S.) (Bureau of the Census)

	-	- 1957 -	
0	Apr.	May	June
Ore, matte &			
regulus (cont.)		8,185	
Canada		1,805	1,276
Mexico			858
Cuba	182	2,172	
Bolivia		705	559
Chile	3,428	518	998
Peru	1.339	453	1.383
Cyprus		2.123	
Philippines	2 223	2	3,227
U. of S. Africa	2 302		2,129
Australia	55		
Other countries.	9	2	
	. 4	4	
Blister copper (content)	20 550	10 000	10.005
(content)	32,008	19,892	
Mexico	5,829		
Chile		12,088	14,865
Peru	549	***	* * *
Northern			
Rhodesia		1,623	
U. of S. Africa		500	
Australia		3,470	1,686
Refined cathodes			
and shapes	11.815	19,687	9.064
Canada	7,486	7.945	6,200
Chile			500
Peru			1.260
Belgian Congo			1,200
Monthown		010	
Rhodesia	979	4,641	1.104
TOTAL IMPORT	414	4,041	1,10
		47 704	20 707
Crude & refined.	31,038	41,104	39,10
Old and scrap	040	000	400
(content)		233	492
Composition meta			
(content)		12	
Brass Scrap & old			
(cu. cont.)	333	380	332

U. S. Copper Scrap Exports

(A.B.M.S.) (Bureau of the Census)

	Apr.	-1957 May	June
Copper scrap,			
unalloyed† (nev	V		
and old)		7,362	7.019
Canada	579	272	314
Belgium	27	11	56
France	552	884	846
Germany (W.).		2,607	1,119
Netherlands	55	55	16
Sweden	164	117	
Switzerland	55	56	
U. Kingdom	385	227	221
India	165	30	103
Japan		3.559	3,862
Other countries.	150	84	482
Copper-base			
scrap, alloyed‡			
(new & old)	8,579	8,865	8,273
Canada		2	3
Mexico			3
Belgium		121	37
France	461	920	1.836
Germany (W.).	2,784	2,869	2.06
Italy	909	737	370
Netherlands	104	27	2"
Portugal	39		24
Spain	6		(
Switzerland	28	109	29
U. Kingdom	182	25	59
India	535	409	543
Japan	3,333	3,613	3,190
Hong Kong		33	72

Y Ash, brass mill, cippings, dross, fue dust, residues, scale, skimmings, wire scrap. \$ Copper-base alloys, including brass and bronze — Ashes, clippings for remanufacture, cupro-nickel scrap, cupro-nickel trimmings, nickel sliver scrap, phosphor bronze, phosphor copper, skimmings, turnings, round.

U. S. Copper Exports

(A.B.M.S.) (Bureau of the Census)

(In tons o	£ 2.000	lha i	
\111 tollis 0	2,000	lbs.) - 1957 -	
	Apr.	May	June
Ore, conc., matte			
& other unref.			
(content)	1 240	1 799	1 259
Refined ingots.	1,010	1,122	1,200
	20 215	90 470	21 054
bars, etc.†		20,419	31,334
Canada		140	666 247
Argentina			
Brazil	1,306	365	
Uruguay	220		
Austria		56	112
Belgium			16
France	6.722	5.808	7.347
France Germany (W.).	4,306		3,938
Italy	3,563	3,208	
Netherlands		616	
Norway	700		
		707	
Switzerland	1,138	737	536
Swtizerland			536
U. Kingdom			
Yugoslavia			
Formosa		21	
India	112	1,287	2,423
Japan		2.118	2,030
U. of S. Africa	74		50
Australia	280		
Other countries	18	234	2,271
Total Exports:	10	201	w, w + L
Crude & refined	22 655	20 201	22 010
Pipes and tubes	10	120	93
Plates and sheets Rods	21	24	13
Roas	236	9	142
Brush-copper, cas			
ings, rolls segme	ents		
(finished forms))		
n.e.s		22	
Wire, bare	1.004	1.387	1.677
Building wire	-,	-,	-,
Building wire and cable:	286	379	253
Weatherproof	200	010	200
wiret	71	68	50
wiret Insulated copper	11	00	56
		1 4/0	1 000
wire, n.e.s	1,049	1,442	1,886

† Includes exports of refined copper resulting from scrap that was reprocessed on toll for account of the shipper. ‡ Gross weight; n.e.s.—not elsewhere specified.

U. S. Lead Imports
(A.B.M.S.) (Bureau of the Census)
(In tons of 2,000 lbs.)

(III tons (2,000	—1957—	
	Mar.	Apr.	May
Ore, matte, etc.			
(content)	18,045	16,786	12,099
Canada			
Mexico	170	531	139
Guatemala			878
Honduras	168	80	504
Bolivia	2,691		964
Chile		29	
Peru	4,680	4,768	5,179
U. of S. Africa	3,519	8,049	
Australia	3,522	708	2,721
Philippines	82		126
Other countries		46	75
Pigs and bars		25,069	22,282
Canada	2,632	3,711	1,403
Mexico		4,886	4,252
Peru		1,814	1,812
Denmark		4	
Spain	55		909
Yugoslavia	1,533	431	6,108
Morocco		4,304	
Australia	4,823	9,919	7,798
Total Imports:			
Ore, base bul-			
lion, refined	38,829	41,855	34,381
Lead scrap, dross,			
etc. (cont.)	449	421	210
Antimonial lead		-	-
& typemetal	629	280	557
Lead content	28.1		0.751

theraof 585

248 531

U. S. Zinc Exports

(A.B.M.S.) (Bureau of the Census)

,		1957 -	-
	Apr.	May	June
Slabs, blocks, etc.	1,200	877	821
Mexico	74	110	
Chile	:::		9
Belgium	112	****	
Germany (W.).	84	56	
Netherlands	224	112	112
U. Kingdom	672	336	336
Korea	32	250	18
India			336
Other countries	2	13	15
Total Exports:	-	20	-
Ore, conc., slabs,	1,200	877	821
blocks	1,200	011	021
Scrap: Ashes,	080		620
dross and skim.	373	555	639
Rolled in sheets,			
plates & strips†	238	259	166
Alloys ex brass			
and bronze		4	36
Die castings	106	107	64
Battery shells and			
parts, unassem.	6	14	35
Chromite zinc			
sheets, mold, cas	t-		
ings, pattern pla forms n.e.s.	60	16	45

† Includes photoengraving sheets and plates.

U. S. Zinc Imports

(A.B.M.S.) (Bureau of the Census)

(In tons o	f 2,000	lbs.) - 1957 -	
	Apr.	May	June
Zinc ore (cont.)	15.630	47,619	41,633
Canada	3 220	13 672	13.487
Mexico1	3.735	16.326	12,057
Cuba	155	38	48
Guatemala	626	523	1,245
Honduras	61	161	141
Bolivia	497	524	698
Chile			
Peru	14.644		10,017
U. of S. Africa	2.347	5,635	866
Australia	231	247	3,059
Philippines		9	6
Other countries	11	370	9
Zine blocks			
pigs, etc	30,036	20,375	
Canada	7,712	7,051	5,753
Mexico	1,481	1,764	2,708
Peru	6,727	1,830	1,350
Austria	220		
Belgium	2,244	2,488	4,176
Germany (W.).	2,269	220	1,221
Italy	1,490	635	1,465
Netherlands		280	560
U. Kingdom	1,120		
Yugoslavia	2,756	220	889
Belg. Congo	1,215	3,759	2,986
Australia	2,802	1,680	1,120
Japan		448	618
Other countries			560
Total Imports:			
Zinc ore,			
blocks, pigs	75,666	67,994	65,039
Dross and skim.	2	71	68
Old and worn out		37	7
		-	

Comparative Metal Prices

		OPA	
Copper Domestic 1		1946 5	
(Electro., Del. Valley) 11	1.20	14.375	26.00- 27.00
Lead (N. Y.) P. W. Zinc (E. St. Louis,	5.05	8.25	14.00
f.o.b.)	5.05	5.05	10.00
New York, del Tin, Spot Straits, N. Y			
Aluminum Ingot 99% + 20	0.00	15.00	28.10
f.o b. Laredo)	2.36	14.50	33.00

World Production of Copper (American Bureau of Metal Statistics) (In Tons of 2,000 Pounds)

							/ *** **		,000 1 04	HULB/						
		Unite		(crudo)	Chile	Peru	Fed. Rep. of Germany	Norway	United Kingdom	Yugo- slavia	India	Japan	Turkey	Aus- tralia	Northern Rho-	of South
1951		(a)	(b)	(e)	(4)	(d)	(0)	(f)	(g-h)	(e)	(f-h)	(e)	(f)	(e)	(e)	(4)
Total 1952		. 964,581	269,971	60,511	396,937	15,485	234,647				****	100,254		16,984	349,667	36,194
Total		. 961,88	258,848	60,874	422,498	22,640	206,747	11,206	163,968	86,176	7,009	104,060	2,546	21,119	336,883	37,459
Total		. 957,81	253,652	63,380	371,742	25,803	233,330	13,306	108,604	84,381	5,709	100,381	25,641	37,080	382,884	38,341
Potal		. 863,72	305,984	59,030	872,814	29,233	258,259	14.205	152,858	33,394	8,274	117.371	27,727	42,241	386,577	48,158
Total	* *	1,036,70	326,599	61,583	447,288	35,478	286,805	14,876	138,271	31,151	8,432	124,908	26,313	41,935	350,302	47,176
May		. 101,42		5,801 5,614	39,954 36,812	2,612			10,217	3,103	755 687	11,923 12,490	2,448 2,628	4,477	33,577 33,640	4,835
July		0.6 00		5,109	40,880	2,602		1,186	12,223	3,197	740	12.570	1.044	4,589	33,279	3,090
Aug.		. 91,28		5,357	44,202	2,523	24,006	1,251	6,733	3,323	782	12,443	1,584	4,841	33,720	4.715
Sept. Oct.		. 88,6			41,475		24,022		11,281	3,028	785	12,015	2,298	4,207	26,917	4,307
Nov.		95,10			47,346	****			11,127	3,020	757	12,477	2,754	4,497	42,381	4,868
Dec.		90,5			46,407	****	22,156		11,426	2,733	702	10,648	2,717	5,252	38,800	4,170 4,290
1957		92,2	30,422	5,521	44,911	838	21,989	1,293	9,174	2,687	786	11,993	2,064	4,707	38,892	4,200
Jan.		94.8	3 26.053	5.592	44.697	2.276	21.990	1,399	11.528	2.697	440	12,493	1.565	4.047	36.360	3,744
Feb.		92,50			41.890	3.131			11,178	2,586	768	12,599	1,455	4.088	35,251	3,392
Mar.		96,36			42.596	3,255			11.651	3.123	850	12,116	3,011	4.688	43,471	3,671
Apr.		98.9			31,761	2,559			7,853	3.049	810	8.860	3.057	5.029	37.605	
May		96.3	34 26,408		38,769	4,122			12,998	3,194	810	13,479		5.036	44,471	****
June			3 26,295		40,262	4.997	21,816		20,000	0,100		13,930		3.021	37.874	
July		86,2	16	5.961		5,839									31,450	
			1 0													9 4 9 - 00

(a) Reported by Copper Institute. Crude, "receverable contents of mine production or smelter production or shipments, and custom intake".

Does not include intake of scrap nor of imported ore except that received from Cuba and Philippines. (b) Blister copper plus recoverable copper in concentrates, matte, etc., experted. (c) Crude copper, i. e., copper content of blister or converter copper as originally produced in the several countries, although some of it may be refined at home; e. g., in Rhodesia. (d) Blister and/or refined. (e) Refined. There are quantities of scrap included in the electrolytic production in addition to that reported, tennage of which is not obtainable. (f) Smelter production. (g) Refinery production from imported blister only. (h) British Bureau of Non-Ferrous Metal Statistics. "Refined.

World Production of Refined Lead

						(Ame		Bureau				B)					
1961		United States	Canada	Mexico	Peru	Belgium		ons of Fed. Rep. of Germany		Pound Spain		Japan	Aus- tralia (a)	French Moreco	Tunisia	Rhodesis	Total
Total	******	486,874	162,712	219,362	48,824	77,878	52,831	170,766	29,683	45,460		18,516	217,301	20,287	25,476	15,646	1,602,601
Total 1953	******	582,778	183,889	248,551	53,536	88,189	59,607	152,751	38,504	46,050	74,053	20,882	217,298	31,224	28,264	14,112	1,783,648
Total		638,883	166,256	225,075	66,520	84,162	60,887	164,077	40,786	53,799	78,038	25,513	241,419	29,970	30,397	12,891	1,818,778
Potal		551,618	166,379	231,595	63,735	79,260	71,083	162,773	11,150	62,475	73,555	37,612	260,424	29,417	30,015	16,800	1,877,841
Total	****	. 547,153	148,811	221,138	67,303	91,241	73,251	162,508	46,806	67,509	83,347	40,912	254,558	28,870	28,620	17,976	1,893,125
May June		47,367	11, 990 11,591	17,611 18,091	6,970	9,188	6,704	14.022 14,302	4,511 3,100	5,660 4,767	5,786	4,142 3,972	15,984 19,664	798	2,372 2,064	1,456 1,456	156.651 167.830
July Aug. Sept.	*******	48,404	12,374 12,196 12,706	18,515 18,890 18,567	6,415 6,192 6.378	9,965	6,377 1,896 6,071	12,165	3.887	5,195 4,724 5,962	7,827 7,546 6,182	4,202 4,126 4,614	27,935 19,757 23,654	2,876 4,151 3,630	1,841 1,933 2,970	1,456 1,490 1,344	170,426 155,665 172,788
Oct. Nov.		54,815	13,923	20.169	2,237	9.213 9.243 9.312	7,212	13,671 16,873 17,679	2,833 4,600 3,319	6,002 5,343	8,237 7,632	4,271	26,243 23,220	2,490	2,389 2,180	1,400	181,423 165,282
Dec. 1957	- ** *	. 54,062	12,531		5,787	9,540	1,797	17,094	3,667	5.113	7,747	4.885	22,263	1,948	2,724	1,344	169,392
Jan. Feb.	*****	48,012	14.192	19,212 18,574	5,676 5,736	9.971 9.969	8.084 7.970	16,540 14,516	3,196 3,519	5,389 3,980	6,195 6,213	4,928 4,863	21,498 17,060	4,052 3,759	1,261 2,544	1,344 1,323	169,640 159,984
Mar. Apr. Mav	******	56,170			6,431 5,915	9,906 9,359	8,103 7,624	16,420 17,559	3,574	6,031 6,235	8,643 7,515	4,464 3,416	18,515	2,215	2,817	1,120	172,730 174,593
June July		48,203	13,172	13,942 8,524 15,831	5,355 6,083 6,768	9,766	8,890 7,809	17,424 13,802	3,275 3,537	1100	6,610	5,477 4,835	25,268	2,211 2,392	2,490 1,997 1,456	1,400 1,456	*****
(a) P			to Aust	ralia inch	udes lea	d refined	in Eng	pland from	a Austr	alian be	see bulli	on.	***	* * * *	1,430	* * * *	

World Production of Slab Zinc (American Bureau of Metal Statistics)

		_					(In To	ns of	2,000	Pound	8)						
	United States	Can.	Mexico	Peru	Belgium	France		Great Britain	Italy	Nether-	Norway	Spain	Yugo	- Japan	Aus- tralia	Rho- desia	Total
1981	(a)	(b)		(b-e)		(a)	German			innes	(b)		\$10418	(a)	(p)	(p)	(4)
Total	981,888	218,548	57,990	1,008	220,479	82,184	155,024	78,101	\$2,058	24,924	44.971	22,444		62,109	88,103	25,301	2,065,216
Potal 1953	961,480	228,140	61,456	5,491	205,909	88,255	162,272	76,981	60,438	28,555	48,061	28,329	15,943	77,203	97,931	25,687	2,141,089
Potal 1954	971,191	247,707	59,589	9,819	213,215	89,218	163,430	81,436	65,780	27,721	42,566	24,152	16,037	86,833	101,008	28,870	2,228,017
Potal	868.242	213,810	60,477	16,982	234,896	122,248	184,806	90,987	14,356	28,686	48,768	25,109	15,040	112,292	117,066	29,786	2,248,501
Total	1,031,018	257,00	8 61,879	18,943	233,623	123,623	197,024	90,917	77,761	31,202	49,724	26,244	15,175	122,965	113,221	31,248	2,534,457
May	81,238	21,790		1,225	21,300	11.174	17,212	6,719	7.190	2,662	4.168	2,226	1.289	18,401	10,012	2,688	214.194
June	78,321	20,780		1,439	21,030	11,003	16.898	8,857	6,270	2,530	4,427	2,175	1,282	12,466	8,606	2,632	208,635
July	83,080	21,691	5,198		21,015	10,679	17,964	6,617	6,433	2,637	4,688	2,047	1,325	13,089	11,141	2,800	216,200
Aug. Sent.	89,549	21,35				10,846	17,633	6,925	6,995	2,543	4,826	1,915	1,420	12,385	10,032	2,464	221,801
Oct.	90.235	20,691			21,207	10,210	17,187	9,130	6.817	2,452	4,487	1,918	1,287	12,674	9,866	2,744	220,868
Nov.	93,493 91,808	21,412			21,153		17,428	6,773	7,334	2,718	4.743	2,110	1,244	13,497	10,171	2,800	224,159
Dec.	92,234	20,47					16,851	6,443	7.037	2,727	4,538	2,087	1.414	12,717	9.810	2,716	219,916
1957	32,234	22,01	2 5,291	880	21,816	10,088	17,835	8,135	7,249	2,745	4.654	2,151	1,425	11,819	10.257	2,856	233,020
Jan.	93.452	20.340	5.357	1.560	22,466	11.464	17,700	6.360	6.944	2,922	4.424	1.896	2.734	11.361	10.166	2.856	228.017
Feb .	88.078	19.80					15,903	6,256	6,186	2,552	3,851	1,694	2.447	10.632	9.130	2,520	213.521
Mar.	96.924	21,94					17.627	8,537	6,719	2.820	4,478	2,124	2,526	9.754	10.114	2.352	234,556
Apr.	96.506	20.50					16,903	6.802	7,174	2,647	4.252	2,009	2.561	9.546	10.037	2.744	
May	96,855	20.56					17,108	7.345	7.089	2.881	4.468	2,000	2.748	14.213	10.336	2.800	
June	90,719	19.92			-0,110	12,498	16.521	6.829	7,110	2,001	4,473		6,140	13.760		2,800	*****
July	85,744	20.06				12,120	10,061	7.236	-,220		4,690			~~.	3335	2.856	
(a) Partial	y electr			irely elec	tralvtic	(e) Ber		1954 hot	alectro		dalacte		(4) Th		totals ami	-

(a) Partially electrolytic. (b) Entirely electrolytic. (c) Beginning 1954 both electrolytic and electrothemic. (d) The above totals emits production in Russia, Czechoslovakia, Poland and in Argentina.

U. K. Virgin Copper Stocks

(In long tons)

British E		Non-Ferrous	Metal
At start of	: 1955	1956	1957
Jan	61,480	76,197	59,614
Feb	62,771	79,377	59,203
Mar	70,185	71,634	62,120
Apr	67,566	73,776	61,779
May	60,767	76,481	71,101
June	58,546	71,713	61,991
July	64,256	76,188	64,121
Aug	99,628	68,197	81,146
Sept	107,261	72,069	
Oct	93,681	62,327	
Nov	75,533	58,893	
Dec	77,749	55,838	* * * *

U. K. Refined Lead Stocks

(British Bureau of Non-Ferrous Metal

		Statist	ics)	
		(In long	tons)	
At start	of	1955	1956	1957
Jan		31,173	40,987	39,420
Feb		32,274	34,326	41,433
Mar		39,461	29,693	36,900
Apr		37,587	33,974	34,877
May		45,226	29,479	44,933
June .		38,760	30.537	40,804
T1		30.816	37.088	42.148
A		32,270	35,432	48.275
Sept.		48,036	35,793	
Oct		42,912	39,391	
Nov.		42,061	32,662	
Dec		38,410	32,025	

U. K. Stocks of Zinc (British Bureau of Non-Ferrous Metal Statistics)

(In tons of 2,240 lbs.)

(III tolls of Ninte ins.)					
	Virgin	Zinc	Zinc.	Conc.	
At sta	rt				
of:	1956	1957	1956	1957	
Jan.	49,962	44,816	54,447	53,274	
Feb.	45,239	40,501	49,537	63,366	
Mar.	44,288	38,927	48,667	59,957	
Apr.	49,194	41,260	40,502	55,698	
May	49,129	37,540	36,524	52,871	
June	47,266	36,000	40,136	49,646	
July	47,644	37,384	40,763	55,900	
Aug.	49,169	35,561	47,972	52,588	
Sept.	51,946		57,125		
Oct.	50,978		55,354		
Nov.	47,364		54,376		
Dec.	46,364		55,223		

U. K. Copper Exports

(British Bureau of Non-Ferrous Metal Statistics)

(In tons of	2,240	lbs.) —1957—	
(Gross Weight)	May		July
Copper unwrought — ingots, blocks, slabs, bars, etc.	3,161	2.972	1.627
Plates, sheets, rods, etc	2,907	1,636	2,602
Wire (including uninsulated electric wire)	3.545	6,725	3.110
Tubes	1,173	1,013	
Other copper, worked (incl. pipe fittings)	104	119	86
Total1	0,890	12,465	8,833

Copper Consumption in United Kingdom

British Bureau of Non-Ferrous Metal Statistics (In tons of 2,240 pounds)

	Unalloyed	Alloyed*	Total	Virgin	Scrap
1953 Total	243,717	192,337	447.260	322,311	124,949
1954 Total		251,989	580.138	448,413	131,725
1955 Total 1956	377,576	281,953	659,529	496,467	163,062
April	27,489	21,029	48,518	36,418	12,100
May		22,295	52,140	41.747	10,393
June	33,774	21,810	55,584	43,622	11,962
July	31,752	19,316	51,086	39,149	11,919
August		14,434	38,860	30,065	8,795
September	35.203	19.584	54.787	45.807	8,980
October	36.824	21,275	58.099	47.814	10,285
November	38.244	21.142	59.386	47.144	12,242
December		17,437	47.364	38.505	8,859
Total	388,167	251,312	639,479	500,794	138,685
1957	000,001		,		
January	40.014	21.574	61.588	51.118	10.470
February	36,191	19.849	56.040	43,326	12,714
March	33,537	19.895	53.432	42,787	10,645
April	33.744	18.124	51.868	40,940	10,928
May	36.721	21.395	58.116	44.740	13,376
June	32.922	18.332	51.254	39.756	11,498
July	32,049	19,388	51,437	38,441	12,996
*Includes conner sulm	nate effective				

U. K. Zinc Imports

(British Bureau of Non-Ferrous Metal Statistics)

Imports Principal		
(A. B. N	(.S.)	

(In tons of 2.240 lbs.)

		1957	
		June	
(Gross Weight)			
Zinc ore			
and conc 7	,586	25,763	4,974
Zinc conc 3	,174	14,113	
Australia 3	,174	13,378	
Burma		735	
Zinc and			
zinc alloys14	,287	13,820	10,778
N. Rhodesia	250	125	250
Australia 1	,250	250	600
Canada (3,708	7,483	6,051
Belgium 1	,668	1,745	808
Germany (W.).	501	1	1
Netherlands	325	1,066	
United States	875	300	300
Other countries ?	2,710	2,850	2,768
Of which:			
Zinc or spelter,			

cakes14,287 13,820 10,778

ingots, blocks, bars, slabs and

Reported in pigs, bars, etc.; metric tons except where otherwise noted.

IMPORTS	1957	
Apr	May	June
U. S. (s.t.)30,03		
Canada (s.t.)		
Denmark 48	4 700	240
France 1,39	2 1,177	509
Italy 70	8 476	
Netherlands 56	8 1.234	
Sweden 1,22	0 2.139	
Switzerland* 2.38		1,213
U. K. (l.t.)13,95		
Indiat (1.t.) 3,86		
EXPORTS		
U. S. (s.t.) 1,20		821
Canada (s.t.)17.13		16.157
Denmark		F.0
France		
Italy 1,61		
Netherlands 83		
Norway 2,10		
Switzerland* 48		347
U. K.† (l.t.) 34	-	374
Northern	020	011
Rhodesiat (l.t.) 2,49	5 2,539	
Australiat (1.t.) 3,59		
	2,200	

* Includes scrap. † Includes manufactures. † British Bureau of Non-Ferrous Metal Sta-

United Kingdom Tin Statistics

(British Bureau of Non-Perrous Metal Statistics)

		ent of Tir				Tin Metal		
1955 Total	Imports	Produc- tion* 1,034	Stock at end of period* 2,181	Imperts 1,227	Produc- tion* 27,241	Cen- sump- tion 22,390	Exports & Re-exports 8,924	Stock at end of period 2,999
	1.647	74	1.240	69	2,060	1,803	457	3,424
June				178	2.082	1.854	405	3,460
July		111	2,240					
August	2,691	48	2.713	20	1 931	1.577	533	3,784
September	934	83	1.277	247	2.575	1.903	1.153	3.274
October	0 200	101	2.561	75	2.272	2.223	953	2,737
November	0.004	88	2.308	445	2.293	1.997	511	3.436
December	9 305	91	2,393	131	2.118	1.649	686	3.175
1956 Total	26,571	1,044	2,393	2,226	26,434	22,232	8,371	3,175
January	3.584	105	3.359	25	2.519	2.134	863	2.878
February	2.468	80	2.812	25	2,688	1,936	800	3.169
March	4.342	85	4.689	66	2.835	1.878	863	3.450
April	2.192	87	3.952	379	2.074	1.752	576	3.281
May		89	3.637	111	3,564	2.240	896	4.043
June	2,689	90		158	2,735	1,799	693	4,692

"As reported by International Tin Study Group. Production of Tin Metal includention from imported scrap and residues refined on toll. Stocks exclude stratege but include official warnhouse stocks.

Canada's Copper Output

(Dominion Bureau of Statistics)

(Re	fined Co	pper)	
	(In Ton	g)	
1954	1955	1956	1957
Jan15,001	22,600	26,653	25,469
Feb13,954	21,455	26,229	21,861
Mar 21,075	25,083	26,750	27,664
Apr 20,412	24,077	26,617	27,398
May 23,012	23,840	27,626	29,086
June .23,344	21,890	27,122	24,093
July21,582	21,185	27,250	
Aug 22,000	26,184	29,219	
Sept22,684	24,752	27,950	
Oct 21,661	25,546	29,696	
Nov 22,981	25,213	27,346	
Dec 24,935	27,172	28,716	
Year 252,643	288,987	331,174	

Canada's Lead Exports

(Dominion Bureau of Statistics)

	(In Pigs)	
	In Tons	3)	
1954	1955	1956	1957
Jan 6,170	5,500	4,888	8,946
Feb 7,560	11,882	3,856	6,633
Mar 11,092	10,318	4,007	7,044
Apr 9,606	11,967	7,636	7,314
May11,483	6,416	7,214	9,676
June12,018	9,897	6,632	7,210
July13,152	8,341	9,696	
Aug 8,646	4,884	4,713	
Sept10,045	5.538	9,908	
Oct 8.005	8.053	9.072	
Nov 10,817	4,622	9,227	
Dec 7,815	5,286	2,734	
Year 116,406	92,407	79,633	

Canada's Silver Exports

(Dominion Bureau of Statistics)

(In ores and	d concentra	ates)
	(Fine	Ounces)	
	1955	1956	1957
Jan.	429,704	435,047	1,070,285
Feb.	457,261	196,803	1,039,491
Mar.	411,597	328,857	1,192,826
Apr.	493,578	348,838	1,247,029
May	445,054	447,710	1,254,526
June	592,238	495,742	972,946
July	285,350	686,209	
Aug.	644,932	1,080,301	
Sept.	636,992	481,042	
Oct.	684,301	731,099	
Nov.	387,147	669,285	
Dec.	405,719	1,023,481	
Year	5,873,873	6,924,414	

Canada's Copper Exports

(Ingots, bars, slabs and billets)

(Ingots, ba	(In Ton		iets)
1954	1955	1956	1957
Jan 9,081	11,078	15,981	20,582
Feb 8,385	12,897	11,041	16,272
Mar 11,671	12,423	12,276	14,720
Apr 11,218	.10,321	14,476	16,417
May 18,407	10,911	12,851	19,048
June .14,877	13,387	10,985	10,82€
July 15,467	12,674	13,599	
Aug14,158	13,219	14,710	
Sept 14,069	13,479	17,268	
Oct11,528	14,208	13,896	
Nov13,372	14,545	19,130	
Dec13,897	14,057	18,630	
Year 156,130	153,199	174,843	

Canada's Zinc Output

(Dominion Bureau of Statistics)

1957
0,340
9,808
1,941
0,504
0,564
,928

Canada's Silver Output

(Dominion Bureau of Statistics)

	_		
	(In	Ounces)	
	1955	1956	1957
Jan.	2,182,386	2,280,575	2,142,746
Feb.	1,960,506	2,094,467	2,004,733
Mar.	2,413,591	2,296,648	2,307,709
Apr.	2,304,287	1,759,384	2,195,457
May	2,235,620	2,463,374	2,089,824
June	2,461,675	2,494,748	2,166,739
July	2,385,654	2,267,271	
Aug.	2,480,607	2,315,312	
Sept.	2,386,385	2,517,451	
Oct.	2,371,890	2,379,162	
Nov.	2,088,991	2,429,547	
Dec.	2,388,627	2,357,202	
Year	27.696.319	27.655.141	
	Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov.	1955 Jan. 2,182,386 Feb. 1,960,506 Mar. 2,413,591 Apr. 2,304,287 May 2,235,620 June 2,461,675 July 2,385,654 Aug. 2,480,607 Sept. 2,386,385 Oct. 2,371,890 Nov. 2,088,991 Dec. 2,388,627	Jan. 2,182,386 2,280,575 Feb. 1,960,506 2,094,467 Mar. 2,413,591 2,296,648 Apr. 2,304,287 1,759,384 May 2,235,620 2,463,374 June 2,461,675 2,494,748 July 2,385,654 2,267,271 Aug. 2,480,607 2,315,312 Sept. 2,386,385 2,517,451 Oct. 2,371,890 2,379,162 Nov. 2,088,991 2,429,547 Dec. 2,388,627 2,357,202

Canada's Lead Output

(Dominion Bureau of Statistics)

	verable	Lead) *	
1954	1955	1956	1957
Jan17,716	18,959	16,002	14,032
Feb16,863	15,018	14,344	15,170
Mar 17,104	19,113	16,857	16,940
Apr19,452	17,889	11,573	14,275
May 19,953	16,808	15,446	14,591
June18,988	17,800	18,145	16,431
July 19,164	16,650	15,841	
Aug 18,237	16,676	16,104	
Sept. 17,066	15,972	15,760	
Oct16,569	13,658	16,725	
Nov 18,365	15,182	14,865	
Dec19,093	17,857	16,056	****
Year 219,280	201.583	188.971	

New base bullion from Canadian ores plus recoverable lead in ores or concentrates shipped for export.

Canada's Zinc Exports

(Dominion Bureau of Statistics)

(SI	abs in T	ons)	
1954	1955	1956	1957
Jan16,625	22,181	15,550	19,304
Feb11,328	25,556	11,757	16,618
Mar 18,199	20,178	8,822	14,923
Apr17,926	21,018	14,317	17,131
May 13,926	14,820	11,357	16,680
June15,654	19,581	15,296	16,157
July 27,582	13,522	15,499	
Aug14,934	16,581	13.070	
Sept17,298	11,793	19,732	
Oct13,064	19,836	20,792	
Nov16,224	14,164	21,411	
Dec 23,277	14,607	16,125	
Year 206,037	213,837	183,728	

Canada's Nickel Output

(Dominion Bureau of Statistics)

		(In Ton	s)	
	1954	1955	1956	1957
Jan.	12,765	14,387	14,985	16,609
Feb.	11,874	13,375	14,997	15,027
Mar.	13,619	15,544	15,504	16,733
Apr.	13,015	15,011	14,431	15,347
May	13,458	15,352	15,203	16,225
June	13,269	14,835	14,492	15,425
July	12,901	14,530	15,125	
Aug.	13,428	14,825	14.852	
Sept.	. 13,521	13,734	14,530	
Oct.	14,323	14,411	15,762	
Nov.	14.159	14.290	15.062	
Dec.	14,947	14,881	14,824	
Year	161,279	175,173	178,767	

METALS, SEPTEMBER, 1957

Canadian Copper Exports

(Dominion Bureau of Statistics)

	Mar.	1957 Apr.	May
Ore, matte,			
regulus, etc.			
(content)			
United States		2,865	1,302
Germany (W.) . Norway		1,665	
U. Kingdom		147	
Ingots, bars,			
billets, anodes 1	4,720	16,417	19,048
United States	7,496	7,353	9,423
Brazil	88		74
Denmark			6
France	656	504	1,625
Italy		112	252
Sweden	224	225	59
Switzerland	56	281	
U. Kingdom	6,002	7,936	7,328
India	196		281
Other countries	2	6	
Total Exports:			
Crude & refined 1	8,717	21,094	21,160
Old and scrap	995	636	1,144
Rods, strips,			
sheet and tubing	1,330	571	976

Canadian Zinc Exports

(Dominion Bu (In tons	reau of of 2,000	Statistics lbs.) —1957—	s)
	Mar.	Apr.	May
Ore (zinc			
content)			
United States	10,555	12,750	13,377
Slab zinc	14,923	17,131	16,679
United States	8,400	9,021	6,469
Italy			224
Netherlands	56		
U. Kingdom	6,168	7,764	9,530
Korea	276	80	128
Philippines		243	328
Taiwan	23	23	
Total Exports:			
Ore and slabs	25,478	29,881	30,056
Zinc scrap,			
dross, ashes	35	179	1,444
United States	35		108
Belgium			485
Netherlands		27	371
Japan		152	480

Canadian Lead Exports

(Dominion Bureau of Statistics)

(In tons of 2,000 lbs.)				
	Mar.		May	
Ore (lead				
content)	2,220	1,559	1,395	
United States	2,220	1,559	1,395	
Refined lead	7,044	7,314	9,676	
United States	2,690	3,509	1,576	
Brazil		56	31	
Venezuela			44	
Germany (W.) .	112			
U. Kingdom	2,128	2,968	6,468	
Japan	2,051	777	1,554	
Taiwan	62			
Other countries	1	4	3	
Total Exports:				
Ore and refined.	9,264	8,873	11,071	
Pipe and tubing.	1		1	
Lead scrap	1			
METALS, SEPTEM	BER,	1957		

Copper Imports and Exports By Principal Countries (A. B. M. S.)

Reported in ingots, slabs, etc.; metric tons except where otherwise noted.

IMPORTS	1957	
Mar.	Apr.	May
U. S. (ore, s.t.) 9,737	13,265	8,185
(blister, s.t.)29,081		
Denmark 150		358
France (crude)	813	1,313
(refined)13.907		
Ttols: 0.990		
Netherlands 2,188	1.934	1,040
Norway 527	75	
Sweden 3,255	5.110	5.357
Switzerland 3,189		
U. K. (l.t.)39,177		
Australia (blister		
& ref., l.t.) ‡ 1.000 EXPORTS		
U. S. (ore and		
unref., s.t.) 1,972		
(ref., s.t.)41,376	32,315	28,479
Canada		
(ref., s.t.)14.720	16,417	19.048
Finland* 271 Norway 1.045	50	415
Norway 1.045	646	
Sweden 336	162	1.801
U. K. (1.t.) 4,766	3,512	3,161
No Phodesia (ref.		
& blist., 1.t.) \(\pmathrm{1}\) 32,460	27,555	

* Include: old. ‡ Pritish Bureau of Non-Ferrous Metal Statistics.

U. K. Copper Imports (British Bureau of Non-Ferrous Metal Statistics)

(In tons of 2,240 lbs.)

1957

Apr. May June

Copper and		
copper alloys:		
(Gross Weight) 39,944	4 34,528	35,203
U. of S. Africa 81	1	111
N. Rhodesia 18.204	4 14,897	13,854
Canada 6,75	6,085	7,473
Belgium	1	
Germany (W.). 11	1 10	7
Norway 125	5 1	
United States 8,19'	7 6,656	8,174
Chile 5,550	0 5,950	5,534
Peru 23	5 400	25
Turkey 493	2	
Belg. Congo 250	0 500	
Other countries. 4'	7 29	25
Of which:		
Electrolytic25,89	7 23,910	23,528
Other refined 3,77	5 2,000	4,835
Blister or rough . 10,213	3 8,577	6,794
Wrought and		
alloys 5	9 41	46
Total39,94	4 34,528	35,203

Canada's Nickel Exports (Dominion Bureau of Statistics)

(Refined	, in oxides, n (In Tons)	natte, etc.	.)
	1955	1956	1957
January	14.421	15.121	14.260
February	13.915	13.940	9.974
March	13.564	16.219	14.958
April	16,083	14.448	18.671
May	14.761	14.729	18.351
June		16,403	14.539
July		11.079	
August	14.861	18.470	
September	14.638	13.849	
October	13,589	12,800	
November	.13.073	14.084	
December	14,749	15,694	
Voor	179 070	186 057	

French Copper Imports

(In metric tons)				
	Mar.	Apr.	May	
Crude copper for				
refining (blis-				
ter, black and				
cement)		813	1.313	
Belg. Congo		813	813	
Turkey			500	
Refined			14,636	
United States		5.883		
Canada		457	1,321	
Chile		314		
Belgium	3,955	4,912	4,701	
Germany (W.).	724	511	215	
Norway	102	254		
Sweden	102			
U. Kingdom		539	919	
Belg. Congo		2.536	1.945	
Rhodesia-	0,100	2,000	2,010	
Nyasaland	1.183	1.795	1.542	
	-,		1,042	
Other countries		151		

French Zinc Imports (A.B.M.S.)

(In metric tons)

(In me	tric ton	1957	
	Mar.	Apr.	May
Ore (gross			
weight)	24,916	26,352	23,123
Peru	3,969	6,127	250
Greece	3,407	2,176	
Italy		583	3,328
Norway	961		456
Portugal			269
Spain	3,489		1,619
Sweden			260
Yugoslavia	2,050		800
Algeria	344	3,541	3,021
Morocco	9,009	8,494	7,607
Tunisia		1,645	818
Australia	1,687	3,786	4,695
Slabs, bars,			
blocks, etc	1,071	1,392	1,177
Belgium		975	940
Germany (W.).		275	
Italy	50	66	137
Norway	25	50	100
Russia		26	

French Metal Exports (A.B.M.S.)

(In me	tric tons	1)				
	1957					
	Mar.	Apr.	May			
LEAD		-				
Ore (gross						
weight)	736	294	38			
Pig lead	518	272	26			
Switzerland	515	255				
Other countries	3	17	26			
Antimonial lead	33	33	11			
ZINC						
Slabs, bars,						
blocks, etc	51					

IT PAYS ADVERTISE in the DAILY METAL REPORTER

Nonferrous Castings

MONTHLY SHIPMENTS, BY TYPE OF METAL (Bureau of Census — Thousands of Pounds)

Alu-		Mag-		Lead
minum	Copper	nesium	Zinc	Die
1952 Total518,979	1.009.910	34.857	408,353	20,941
1953 Total658,022	990,496	34.517	521,253	20,444
1954 Total607,764	834,557	25,572	474,741	18,396
1955 Total833,058	1,011,748	27,892	781,254	21,045
1956				
January 74,152	89,767	2,959	68,050	1,598
February 73,096	91,706	2,977	66,584	1,636
March 73,785	96,085	3,046	65,760	1,644
April 67,880	90,679	3,140	58,274	1,910
May 65.786	89,188	3,021	52,205	1,919
June 58,189	78,921	2,949	47,775	1,883
July 52,955	60,926	2,810	42,227	1,551
August 61,507	77,619	3,059	52,321	2,112
September 62,503	72,109	3,079	46,340	1,004
October 74,209	81,049	3,442	65,450	2,206
November 69.741	72,866	2,892	64,972	1,788
December 67,333	65,198	2,794	58,111	1,483
Total 801,136	966,473	36,168	88,069	20,734
January 72,999	82,025	3,207	67,964	1,883
February 69,651	72,084	2,661	59,793	1,435
March 74,527	77,418	2,970	61,378	1,865
April 68,284	77,167	2,896	54,982	2,070
May 65,108	75,347	2,832	53,565	2,373
June 58,547	70,959	2,973	49,356	2,336

Copper Castings Shipments

	BY TY	PE OF CAS	TING		
(Bureau of C			housands of	Pounds)	
		, ,	Permanent		A11
	Total	Sand	Mold	Die	Other
1951 Total1	.197,443	1,075,437	69.883	12.516	39,607
1952 Total1		910,862	63,865	8,259	26,924
1953 Total	990,496	888,369	61,316	10,077	30,734
1954 Total	834.557	751.804	48.849	6.480	27,394
1955 Total1	,011,748	907,852	63,041	8,541	31,408
1956					
January	89,767	80,116	6,135	799	2,717
February	91,706	82,244	5,888	727	2,847
March	96,085	85,894	6,299	782	3,110
April	90,679	81,333	5,835	722	2,789
May	89,188	80,155	5,398	751	2,854
June	78,921	70,260	5,052	755	2,854
July	60,926	55,027	3,193	506	2,200
August	77,619	70,479	3,805	904	2,431
September	72,109	64,887	3.930	929	2.363
October	81,049	73,058	4,104	1,120	2,767
November	72.866	65,022	4,114	1,057	2,673
December	65,198	57,929	3,769	971	2,529
Total	966,113	866,404	57,522	10,023	32,134
1957					
January	82,025	73,702	4,510	1,008	2,805
February	72,084	64,346	4,188	874	2,676
March	77,418	69,258	4.445	878	2,837
April	77,167	69,141	4,316	894	2,816
May	75,347	67,251	4,421	953	2,722
June	70,959	63,910	3,590	868	2,591

Nickel Averages

Platinum Averages

	111011		14500			I Ideill	um Av	crage	•
	.b. refin		ets, 9º.0 y include ound)				THLY Q		
	1954	1955	1956	1957		1954	1955	1956	1957
Jan.	60.00	64.50	64.50	74.00	Jan.	91.40	81.00	106.30	101.92
Feb.	60.00	64.50	64.50	74.00	Feb.	91.00	78.16	104.34	98.59
Mar.	60.00	64.50	64.50	74.00	Mar.	87.88	78.00	104.23	93.50
Apr.	60.00	64.50	64.50	74.00	Apr.	85.50	77.94	103.92	93.45
May	60.00	64.50	64.50	74.00	May	85.50	77.50	105.23	92.865
June	60.00	64.50	64.50	74.00	June	85.50	78.33	106.50	92.02
July	60.00	64.50	64.50	74.00	July	85.50	81.78	106.50	90.265
Aug.	60.00	64.50	64.50	74.00	Aug.	85.00	84.59	105.76	84.426
Sept.	60.00	64.50	64.50		Sept.	85.50	91.96	105.50	
Oct.	60.00	64.50	64.50		Oct.	83.62	94.60	104.85	
Nov.	60.98	64.50	64.50		Nov.	81.07	103.11	104.50	
Dec.	64.50	64.50	72.48		Dec.	80.64	106.58	104.50	
Av.	60.46	64.50	65.165		Av.	85.72	86.12	105.18	

Spot Straits Tin

(Straits, Open Market, N. Y.) Monthly Average Prices

			-	
	1954	1955	1956	1957
Jan.	85.125	87.268	105.036	101.511
Feb.	85.16	90.836	100.803	101.132
Mar.	92.457	91.161	100.786	99.643
Apr.	96.298	91.48	99.268	99.304
May	93.51	91.41	96.994	98.347
June	94.24	93.68	94.589	98.05
July	96.55	97.08	96.143	96.52
Aug.	93.381	96.521	99.049	94.261
Sept.	93.536	96.607	103.809	
Oct.	93.225	96.20	106.023	
Nov.	91.176	97.987	110.921	
Dec.	88.571	108.02	104.268	
Aver.	91.935	94.85	101.474	

Prompt Tin Prices

(Straits, Open Market, N. Y.) Monthly Average Prices

	(Cer	its per p	ound)	
	1954	1955	1956	1957
Jan.	84.84	87.628	104.768	101.347
Feb.	85.04	90.75	100.586	100.257
Mar.	91.24	91.065	100.524	99.476
Apr.	96.238	91.41	99.145	99.286
May	93.51	91.38	96.853	98.335
June	94.24	93.64	94.488	98.025
July	96.55	96.825	96.131	96.44
Aug.	93.381	96.456	98.924	94.159
Sept.	93.536	96.256	103.559	
Oct.	93.00	96.075	105.716	
Nov.	91.099	97.882	110.329	
Dec.	88.571	107.75	104.00	
Av.	91.77	94.73	101.252	

Quicksilver Averages

N. Y. Monthly Averages

Vir	gin, Doll	lars per	76-lb. F	lask
	1954	1955	1956	1957
Jan.	189.60	324.68	277.88	256.00
Feb.	190.00	324.68	270.29	256.00
Mar.	201.63	322.61	261.40	256.00
Apr.	221.36	318.14	267.22	256.00
May	251.20	306.62	267.675	256.00
June	273.46	286.98	260.69	256.00
July	287.40	268.22	256.06	256.00
Aug.	290.71	255.18	256.00	252.20
Sept.	314.08	263.70	256.00	
Oct.	329.50	279.02	255.92	
Nov.	321.17	282.50	255.13	
Dec.	319.96	282.27	256.00	
Av.	265.84	292.90	261.71	

Primary Aluminum Output, Shipments and Stocks

(U. S. De	partment of	(Interior)		
Steeks beginning		-Sold or	Used— Value	Stocks end of
of month short tons	Production short tons	Short tens	f. o. b. plant	month short tons
1956				
October 47,179	149.125	134.014	67,126,363	62,290
November 62,290	145.081	119,787	60,252,640	87,584
December 87,584	148.391	133.186	67.039.743	102,789
Total	1,679,247	1,591,478		
1957 January	147.029	104.394	52.418.766	145.131
February145,131	119.059	97.886	49.173.176	166.324
March	135,706	141.529	71.240.311	160,501
April	139,152	123,549	61,932,877	176,104
May176,104	145,174	126,152	63,352,473	195,126
June	138,007	140,277	70,379,484	192,856
July192,856	142,157			

Aluminum Wrought Products

PRODUCERS' MONTHLY NET SHIPMENTS
(Bureau of Census — Thousands of Pounds)

· Total	Plate, Sheet,	Rolled Structural Shapes, Rod, Bar & Wire	Extruded Shapes	Powder, Flake,
1954 Total2,088,439	1,165,090	357,229	518,070	46,255
October 248,806	138,328	30,554	71,456	2,926
November 245.526	137,109	31,656	67.798	2,658
December 242,993	138,592	31.802	64,159	1.837
Total2,805,500	1,542,368	365,391	812,311	35,854
January 251.639	142,049	34.008	67,499	2.118
February 240,999	134,077	33,727	65,261	1,901
March 232,767	128.432	30,972	63,482	1,947
April 260,610	143,859	37.971	69,639	3.316
May 264,378	147,613	39,900	68,106	2,215
June 240,415	132,510	33,438	65,600	2,119
July 247,895	139,571	35,346	64,249	2,736
August 248,457	141,400	32,413	66,315	3,039
September 217,425	117.074	32,154	59.462	2.953
October 252,289	136,546	25,385	73,363	2.255
November 218,272	114,618	31,501	64,197	1,716
December 194,822	99,851	31,787	55,225	1,702
Total 2,870,101	1,577,601	398,602	782,398	28,017
January 234.805	126,008	35.911	64.227	1.970
February 206,397	109,786	30,330	58,296	1,927
March 229,786	120,077	34,365	66,400	2,190
April 238,212	126,755	34,805	68,284	2,572
May 249,012	130,047	35,680	74,364	2,670
June 226,749	117,085	22,427	109,221	2,630

Aluminum Castings Shipments

(Bureau of Census)
BY TYPE OF CASTING
(Thousands of Pounds)
Perm All Other Permanent Mold Sand Die Total 1951 Total 515,131 151,465 169,732 10,277 7,748 193,378 160,011 1952 Total 518 979 194,616 146,883 1953 Total 214,553 200,025 658,022 239,330 4,114 1954 213.968 Total 609,066 155.738 232,726 6.800 1955 Total 833,058 171,757 298,115 354,804 8,282 1956 January 74,152 15,861 24,528 33,253 510 February 73,096 15,560 23,963 32,949 624 16,597 14,732 March 73,785 22,816 33,965 407 April 67,880 20,718 31,782 648 May 65,786 15,600 19,669 29.814 703 13,448 12,398 25,027 647 June 58,189 19,067 23,491 678 July 52,955 16,388 August 61,407 62,503 13,100 12,354 29,553 18.067 687 September 17,855 31,640 654 October 74,209 14,389 21,120 37,782 918 November 69,741 14,333 20,673 33,929 806 December 67,333 13,391 20,557 32,923 454 1956 Total 7,736 801,036 171,763 245,421 376,108 1957 72 999 14.201 20.963 37.194 641 January 13.366 21,707 February 69,451 34.311 67 March 74,527 13,914 22,974 37,521 118 68,284 14,287 20,376 33,493 April

12,705

11,585

20,708

17,130

31,602

29,700

. . .

Virgin Aluminum

Virgin 99% Delivered Monthly Average Prices (Cents per pound) 1954 1955 1956 1957 27.10 21.50 22.90 24 40 27.10 Feb. 23.20 24.40 23.20 24.60 27.10 21.50 Mar. 25.90 27.10 21.50 23 20 Apr. 27.10 21.50 23.20 25.90 May June 21.50 23.20 25.90 27.10 23.20 25.90 27.10 July 21.50 24.26 26.70 28.10 22.12 27.10 22.20 24.40 Sept. 27.10 22.20 24.40 Oct. 24 40 27.10 22 20 Nov. 27.10 Dec. 22.20 24.40 21.785 23.655 26.008 Av.

Magnesium Wrought Products Shipments

(Bureau of Census)

	(Duit	au or c	cususy	
(Thousa	ands of	Pounds)	
	1954	1955	1956	1957
Jan	972	1,776	2,188	1,065
Feb	1,136	1,648	1,901	1,261
Mar	1,136	1,947	1,946	1,194
Apr	892	1,756	2,279	2,511
May	1,129	1,836	2,462	1,115
June	1,312	1,686	2,302	941
July	1,032	1,437	2,002	714
Aug	1,111	1,742	2,523	
Sept	1,183	2,159	1,988	
Oct	1,002	1,667	861	
Nov	1,243	1,954	2,141	
Dec	1,673	1,577	2,452	
			-	_
Total .	13.743	21.186	24.975	

Cadmium Averages

N. Y. Me	onthly Average	:8
Cents pe	er lb. in ton lot	s
1954	1955 1956	

	1954	1955	1956	1957
Jan.	200.00	170.00	170.00	170.00
Feb.	170.00	170.00	170.00	170.00
Mar.	170.00	170.00	170.00	170.00
Apr.	170.00	170.00	170.00	170.00
May	170.00	170.00	170.00	170.00
June	170.00	170.00	170.00	170.00
July	170.00	170.00	170.00	170.00
Aug.	170.00	170.00	170.00	170.00
Sept.	170.00	170.00	170.00	
Oct.	170.00	170.00	170.00	
Nov.	170.00	170.00	170.00	
Dec.	170.00	170.00	170.00	
Av.	172 50	170.00	170 00	

June

65,108

58,547

Steel Ingot Production

	(A	merica	in Iron	and S	steel Ins	titut	e)		Calculates
	OPEN HE	ARTH er cent	BESSE	MER er cent	All Comp ELECT Pe	RIC r cent	TOT	AL cent	weekly produc- tion, all
recind	Net tons	of	Net tons	of	Net tons		Net tons	of	companies
		apacity		pacity		pacity		acity	
1962 Total		87.2	3,523,677	65.6	6,797,923	82.6	93,168,039	\$5.8	1,782,097
	100,473,828	97.9	3,855,705	83.2	7.280,191		111,609,719	94.9	2,140,578
	80,827,494 105,842,886		3,548,104	68.1	5,436,054 8,338,592		88,311,652	71.0	
1956	140,645,000	30.0	0,019,000	90.5	0.400,074	11.4	117,000,566	93.0	2,243,969
May	. 9.370.167	98.2	297,990	73.3	822,219	86.0	10,490,876	96.2	2,368.031
June		93.9	282,846	71.9	778,546	83.6	9,721,436	92.1	2,266,069
July		12.9	*****		292,012	30.5	1,622,163	14.9	
August		75.6	189,564	46.6	719,759	75.3	8.122.597	74.5	
September		101.2	286,978	72.9	792,885	85.7	10,422,659	98.8	2,435,201
October	9.841,002	103.2	330,101	81.2	877,410	918	11.048,513		2.575.411
November		102.2	295,827	72.5	829,925	89.6	10,555,500		
December			308,465	75.9	833.161	87.1	10,837,545	99.4	
Total	102,840,585	91.6	3,227,997	67.4	9,147,567	81.2	115,216,149	89.8	2,203,828
January	9,829,691	99.0	294,839	77.1	884.232	86.5	11.008.762	97.1	2.485.048
February	8,898,671		277,682	80.4	810,853	87.8	9.987,206	97.6	
March			275,156	71.0	871,754	85.2	10,589,074	93.4	2.390,310
April			231,731	62.6	762,721	77.1	9,814,780	89.5	2,287,828
May			201,864	52.8	747,752	73.1	9,792,323	86.4	
June			210,915	57.0	681,584	68.9		85.6	
July			194,638	50.9	627,575	61.4	8,908,732	78.6	
August	8,289,000	83.5	205,000	53.6	7_4,000	70.8	9,218,000	81.3	2,081,000

Blast Furnace Output

(American	Iron	and	Steel	Institute)
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Pic	(American Iron	and Steel Insti	itute)	(Dureau o	(Census)	
Pig			iedic)	(Short	Tons)	For Own
Pig				T-4-1	F C-1-	***
1947 1947 1948 1948 1951 1951 1951 1951 1952 1955	Pie		es.			
1947 TRI. Yr. 58,507,169 1948 TRI. Yr. 60,135,941 1712,899 60,848,840 90.2 1953 1,925,116 1,476,352 448,767 1954 Tri. Yr. 60,135,941 1712,899 60,848,840 90.2 1954 Tri. Yr. 63,613,779 1952,544 1953 1,829,277 1,290,016 431,330 1954 Tri. Yr. 64,810,272 673,896 65,484,168 91.5 1955 Tri. Yr. 64,810,272 673,896 65,484,168 91.5 1955 Tri. Yr. 70,487,380 1745,381 17,232,761 1885 Tri. Yr. 70,487,380 1745,381 17,232,761 1885 Tri. Yr. 70,487,380 1893 Tri. Sr. 1,828,686 1895 1893 Tri. Yr. 64,810,272 1893 Tri. Yr. 64,810,272 1893 Tri. Yr. 64,810,272 1893 Tri. Yr. 64,810,272 1893 Tri. Yr. 70,487,380 1894 1954 Tri. Yr. 70,487,380 1894 1954 Tri. Yr. 70,487,380 1895 Tri. Yr. 64,810,272 1895 Tri. Yr. 70,487,380 1895 Tri. Yr. 64,810,272 1895 Tri. Yr. 70,487,380 1955 Tri. Yr. 70,487,380 1955 Tri. Yr. 70,487,380 1955 Tri. Yr. 70,487,380 1956 Tri. Yr. 70,487,380 1957 Tri. Yr. 70,487,380 1956 Tri. Yr. 70,487,380 1957 Tri. Yr. 70,487,380 1956 Tri. Yr. 70,487,380 1957 Tri. Yr. 70,487,380 1957 Tri. Yr. 70,487,380 1956 Tri. Yr. 70,48						
Tel. Yr. 60,185,941 712,899 60,848,840 90.2 1954 71,290,016 431,330 1954 711, Yr. 62,613,779 592,564 54,206,842 76.8 1955 711, Yr. 64,810,272 678,896 65,484,168 91.5 1955 Mar. 120,053 92,237 27,816 712, Yr. 70,487,880 745,881 71,232,761 98.8 Apr. 120,053 92,237 27,816 712, Yr. 61,838,668 629,926 62,168,891 84.2 1958 1958 1958 1958 1958 1958 1958 1958		- Dp. 020.	.,,	19512,101,604	1,507,413	594,191
Tel. Yr. 60,185,941 712,899 60,848,840 90.2 1954 71,290,016 431,330 1954 711, Yr. 62,613,779 592,564 54,206,842 76.8 1955 711, Yr. 64,810,272 678,896 65,484,168 91.5 1955 Mar. 120,053 92,237 27,816 712, Yr. 70,487,880 745,881 71,232,761 98.8 Apr. 120,053 92,237 27,816 712, Yr. 61,838,668 629,926 62,168,891 84.2 1958 1958 1958 1958 1958 1958 1958 1958	Ttl. Yr. 58,507,169	702,561 59,209,730	90.1	19521.925.116	1.476.352	448,767
1949 1950						
Til. Yr. 64,810,272 678,896 65,484,168 91.5 1955		712,899 60,848,849	90.1		1,200,010	403,000
Tell. Yr. 64,810,272 678,896 65,484,168 91.5 1951 Til. Yr. 70,487,880 745,281 71,232,761 98.3 Apr. 120,053 92,237 27,816 1952 Til. Yr. 81,888,665 629,926 62,168,891 84.2 June 133,887 102,457 31,430 71,131 71,181,181 71,181,181 71,181,181 71,181,181 71,181,181 71,181,181 71,1		FRO 544 - 54 -004 -49	74.4		900 150	202 020
Til. Yr. 64,810,272 678,896 65,484,168 91.5 Mar. 127,460 98,926 28,584 Til. Yr. 70,487,880 745,881 71,232,761 98.8 Apr. 120,053 92,237 27,816 Til. Yr. 81,588,665 629,926 62,168,591 84.2 Til. Yr. 81,588,665 629,926 62,168,591 84.2 June 133,887 102,457 71,170 26,705 Total .74,987,721 855,038 75,842,789 95.5 July 97,875 71,170 26,705 Total .88,119,882 568,783 58,688,117 71.6 Aug. 126,406 96,290 30,116 Sept. 140,843 107,622 33,221 Aug. 4,868,665 64,875 6,864,882 98.4 Oct. 145,674 110,409 35,265 Ray 8,788,286 81,899 8,484,882 98.4 Oct. 145,674 110,409 35,265 Ray 8,788,286 81,899 8,484,882 98.4 Oct. 145,674 110,409 35,265 Ray 8,788,286 81,899 8,484,882 98.4 Nov. 152,381 116,908 35,473 July 6,389,888 61,166 6,864,882 98.5 Dec. 158,982 122,201 36,781 Aug. 6,888,889 71,802 8,681,482 98.5 Total 1,530,694 1,166,706 363,988 Sept. 6,888,789 8,788 77,809,881 97.5 Dec. 8,887,897 88,788 77,809,881 97.7 Feb. 165,398 128,598 36,800 Total .77,114,073 888,758 77,809,881 92.7 Mar. 170,045 130,839 39,206 1986 7 Sept. 6,889,883 62,766 6,884,883 91.5 Apr. 6,888,883 62,766 6,884,883 91.5 Apr. 6,888,883 62,766 6,884,883 91.5 Aug. 5,780,683 17,491 1,107,699 15.2 Aug. 159,787 88,614 7,334,584 91.5 Aug. 159,831 127,001 32,830 Aug. 6,878,083 46,881 6,434,839 91.6 Aug. 159,831 127,001 32,830 Aug. 5,780,683 63,969 7,315,559 100.8 Nov. 6,977,457 58,614 7,334,584 91.7 Aug. 159,79 Aug. 5,780,881 17,491 1,107,699 15.2 Aug. 159,831 127,001 32,830 Aug. 159,831 127,001 32,830 Aug. 5,780,831 17,491 1,107,699 15.2 Aug. 159,831 127,001 32,830 Aug. 159,831 127,001 32,830 Aug. 6,878,838 65,666 6,865,478 98.8 Aug. 159,831 127,001 32,830 Aug. 159,844 91.8 Aug. 159,844 91.8 Aug. 159,844 91.8 Aug. 159,845 91.8 Aug. 159		592,584 54,200,548	10.0		000,100	903,938
Tell Yr. 70,487,880 745,881 71,232,751 88.3 Apr. 120,053 92,237 27,816 Tell Yr. 81,585,666 629,926 62,155,591 84.2 June 133,887 102,457 31,430 70431 .58,119,882 568,785 68,681,17 71.6 Sept. 126,406 96,290 30,116 70431 .58,119,882 568,785 68,681,17 71.6 Sept. 126,406 96,290 30,116 May 1,782,265 1,996 48,785 61,696 48,785 68,686,117 71.6 Sept. 140,843 107,622 33,221 1936 Sept. 140,843 107,622 33,221 10,10 Sept. 140,843 10,10 Sept		678,896 65,484,168	91.5			
Til. Yr. 70.487,889 745,881 71,232,761 98.3 Apr. 120,053 92,237 27,816 1952 Til. Yr. 81,888,645 629,926 82,168,891 84.2 June 133,887 71,170 26,705 1953 Total .74,987,721 855,038 75,842,789 95.5 July 97,875 71,170 26,705 1958 Apr. 6.889,927 84,712 6.884,839 98.4 Oct. 145,674 110,409 35,265 May 6.785,226 51,699 6.848,838 98.4 Oct. 145,674 110,409 35,265 May 6.888,838 98.4 Nov. 152,381 116,908 35,473 June 6.885,878 48,788 6.888,817 71. Dec. 158,982 122,201 36,781 June 6.885,878 48,788 6.985,818 97.3 Total .5,530,694 1,166,706 363,988 1956 Nov. 6.686,449 62,841 6.889,999 97.8 June 6.887,887 85,888 77,898,811 92.7 Total .77,114,078 888,758 77,898,811 92.7 Mar. 170,045 130,839 39,206 1958 18,932 62,684 97.3 Nov. 168,708 125,015 38,693 1958 1958 63,680 1958 1958 63,680 1958 1958 63,680 1958 1958 63,680 1958 1958 63,680 1958 1958 1958 1958 1958 1958 1958 1958				Mar 127,460	98,926	28,534
Table 17 c. 81,888,665 c. 29,926 c. 158,891 s4.2 June 133,887 102,457 31,430 Total .74,987,721 855,038 75,842,759 95.5 July 97,875 71,170 26,705 1954 Total .88,119,852 563,738 58,688,117 71.6 Aug. 126,406 96,290 30,116 Sept. 140,843 107,622 33,221 Lotal .88,119,852 563,738 58,688,117 71.6 Aug. 126,406 96,290 30,116 Sept. 140,843 107,622 33,221 Lotal .88,128 54,748		745,381 71,232,761	98.3		92.237	27.816
Total .74,987,721 855,038 75,842,759 95.5 July .97,875 71,170 26,705 Total .58,119,882 568,783 58,688,117 71.6 Sept126,406 96,290 30,116 May .788,226 51,596 6.848,378 84,712 6.844,878 85.4 Nov152,381 116,903 35,265 May .6,285,285 61,166 6.848,378 85.4 Nov152,381 116,903 35,265 May .6,285,285 61,166 6.848,378 94.7 Dec158,982 122,201 36,781 July .6,398,385 61,166 6.848,378 94.7 Dec158,982 122,201 36,781 July .6,398,385 61,166 6.848,378 97.3 Dec688,378 49,788 6.788,489 97.3 Ook6,308,389 59.98 6.985,378 97.8 Ook8,308,389 59.98 6.985,378 97.8 Ook8,308,389 59.98 6.985,378 97.8 Ook8,308,389 59.8 6.985,378 97.8 Ook8,308,389 39.206 July .7,114,478 885,758 77,808,381 92.7 Feb165,398 128,598 36,800 July .17,114,478 885,758 77,808,381 92.7 Feb166,398 128,598 36,800 July .17,114,478 885,758 77,808,381 92.7 Mar170,045 130,389 39,206 July .17,384 96,350 21,634 July .1,689,518 17,491 11,107,699 18.2 Sept155,046 121,705 33,341 Ook197,457 58,646 1.482,317 70.8 Sept156,046 121,705 33,341 Ook197,457 58,646 1.482,317 70.8 Sept.						
Total .74,987,721 855,038 75,842,759 95.5 July 97,875 71,170 26,705 1988 7058 1988 568,688,117 71.6 Sept. 140,843 107,622 33,221 Apr. 6.88,828 61,684,828 94.7 Oct. 145,674 110,409 35,265 848, 94.7 Sept. 140,843 116,908 35,473 108,828 61,164 6.89,838 94.7 Dec. 158,982 122,201 36,781 July 6.38,838 61,164 6.89,858 94.7 Dec. 158,982 122,201 36,781 July 6.38,838 61,164 6.89,858 97.3 Total 1,530,694 1,166,706 363,988 Sept. 6.684,878 49,788 6.783,848 97.3 1956 Nov. 6.88,648 82,841 6.88,899 97.9 Jan. 158,618 128,343 35,275 Nov. 6.89,648 82,841 6.88,899 97.9 Jan. 158,618 128,343 35,275 Total 77,114,678 88,758 77,569,831 97.7 Feb. 165,398 128,593 36,800 1986 1986 1986 1986 1986 1986 1986 1986		629,926 61,188,891	84.2			
Total		855 038 75 847 759	95.5			
1985		000,000 10,002,100				
Elsy 6,786,286 51,899 6,844,826 98.4 Nov. 152,381 116,903 35,265 149 6,865,848 116,203 46,785 18,864 116,225 122,201 36,781 119,100 11,	Total58,119,882	568,735 58,688,117	71.6			
Juhy 6, 389, 389 61, 166 6, 289, 589 98, 3 10ec. 158, 982 122, 201 36, 781 Aug. 6, 88, 889 49, 788 6, 783, 884 97, 3 10ec. 158, 982 122, 201 36, 781 1956 Oct. 6, 88, 878 6, 88, 878 78, 886, 785 77, 886, 881 97, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 163, 708 125, 015 38, 693 39, 206 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 163, 708 125, 015 38, 693 39, 206 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 163, 708 125, 015 38, 693 195, 196 88, 188 88, 768 88, 7	1988					
Juhy 6, 389, 389 61, 166 6, 289, 589 98, 3 10ec. 158, 982 122, 201 36, 781 Aug. 6, 88, 889 49, 788 6, 783, 884 97, 3 10ec. 158, 982 122, 201 36, 781 1956 Oct. 6, 88, 878 6, 88, 878 78, 886, 785 77, 886, 881 97, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 165, 398 128, 598 36, 800 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 163, 708 125, 015 38, 693 39, 206 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 163, 708 125, 015 38, 693 39, 206 1965 77, 114, 878 88, 758 77, 886, 881 92, 7 Feb. 163, 708 125, 015 38, 693 195, 196 88, 188 88, 768 88, 7	Apr 6,819,927	64,712 6,984,688	92.4	Oct 145,674	110,409	35,265
July 6.88,888 61,166 6.296,689 88.8 88.8 Total 1,530,694 1,166,706 363,988 Sept. 6.88,878 49.788 6.783,848 97.3 Oct. 6.80,620 61,841 6.88,982 97.8 1956 Oct. 6.80,620 61,841 6.88,982 97.8 1956 Oct. 6.88,768 61,841 6.88,989 97.9 97.9 Jan. 158,618 123,343 35,275 Oct. 6.88,768 6.88,818 97.7 Feb. 165,398 128,598 36,800 19	May 6,758,286			Nov 152,381	116,908	
Aug. 6.889.888 71.802 8.601.482 91.5 Total 1.530,694 1,166,706 363,988 Sept. 6.883.878 49,788 6.983.899 97.6 Jan. 158,618 123,343 35,275 Dec. 6.878,676 45.849 6.883.818 97.7 Feb. 165,398 128,598 36,800 198.4 19			94.7			
Sept. 6.88.878 49.788 6.98.846 97.3 97.6 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 97.8 0.96.878 0.9						
Oct. 6.906,380 58,962 6.968,378 97.8 1998 Nov. 6.887,687 68,849 6.881,816 97.7 Feb. 165,398 128,598 36,800 1956 77,114,678 88,849 8.888,758 77,808,831 92.7 Feb. 165,398 128,598 36,800 1956 77,114,678 88,758 77,808,831 92.7 Mar. 170,045 130,839 39,206 78.0 8.818 6.602,817 97.8 May 178,227 142,025 36,202 Mar. 7.083,877 65,666 7,149,448 98.8 Jule 164,661 129,147 35,514 June 6.871,102 47,849 6,824,839 98.8 July 117,983 127,001 32,830 July 1,089,618 17,491 1,197,099 18.2 Sept. 155,046 121,705 33,341 Sept. 6,871,804 89,884 6,832,648 98.7 Oct. 175,630 135,798 98,					1,100,100	000,300
Nov. 6.686.48				1956		
Dec. 6.847.697 65.846 6.886.718 77.800.831 92.7 Feb. 165.398 128.598 36.800 39.206 198.6				Jan 158,618	128,343	35,275
1956 186,845 48,819 7,048,644 97.1 Apr. 163,708 125,015 38,693 76.85,845 83,819 7,048,644 97.1 Apr. 163,708 125,015 38,693 36,202 Mar. 7,048,877 68,546 6,03,817 97.2 May 178,227 142,025 36,202 Mar. 7,048,877 68,546 7,148,442 91.5 June 164,661 129,147 35,514 May 6,878,108 47,840 6,948,839 98.4 June 164,661 129,147 35,514 May 6,878,08 46,881 6,434,538 91.6 Aug. 159,831 127,001 32,830 July 1,089,518 17,491 1,197,699 18.2 Aug. 159,831 121,705 33,341 Aug. 5,160,689 41,648 6,182,17 70.8 Sept. 155,046 121,705 33,341 Aug. 5,160,689 41,648 6,182,448 98.7 Oct. 175,630 135,798 39,832 Oct. 7,245,650 69,909 7,315,559 100.8 Nov. 164,114 126,900 37,214 Ope. 7,268,743 68,341 73,34,584 101.0 Dec. 158,725 125,569 33,156 Total 75,301,134 664,341 75,965,475 88.9 Total 1,931,987 1,512,290 416,697 1957 Jam. 7,208,547 72,282,373 98.8 Feb. 6,586,133 61,973 6,658,106 100.1 Feb. 154,932 121,667 33,265 Mar. 160,054 124,416 35,638 May 6,878,881 65,566 6,945,447 94.2 Apr. 162,498 124,549 37,949 June 6,593,326 66,266 6,665,5476 94.2 93.3 Apr. 162,498 124,549 37,949 June 6,593,326 66,266 6,665,5476 94.2 93.3 Apr. 162,498 124,549 37,949 30.0 30					128,598	36,800
Jan. 6.985,945 68.819 7.04,864 97.1 Apr. 163,708 125,015 38,693 Har. 7.083,879 68.681 6.602,817 97.2 May 178,227 142,025 36,202 Mar. 7.083,879 68.688 1.163,463 98.8 June 164,661 129,147 35,514 Apr. 6.881,608 48.841 6.434,639 98.8 July 117,984 96,350 21,634 July 1.089,518 17,491 1.107,009 18.2 Aug. 159,831 127,001 32,830 Aug. 5.106,669 41,648 6.142,217 70.8 Sept. 155,046 121,705 33,341 Sept. 6.878,064 48,584 8.7 Oct. 175,630 135,798 39,831 Oct. 7.245,650 69,909 7.315,559 100.8 Nov. 164,114 126,900 37,214 Obec. 7.268,743 68,841 7.344,584 101.0 Dec. 158,725 </td <td></td> <td>868,758 77,800,881</td> <td>92.7</td> <td></td> <td></td> <td>39.206</td>		868,758 77,800,881	92.7			39.206
Feb. 6.839.199 48.618 6.602.817 97.8 May 178.227 142,025 36,202 Mar. 7.083.877 65.666 7.149.448 98.5 June 164,661 129,147 35,514 May 6.876.083 48.818 6.744.639 96.3 July 117.989 99.20 21,634 July 1.089.518 17.91 1.107.099 15.2 Sept. 159,831 127,001 32,830 Aug. 1.089.518 17.91 1.107.099 15.2 Sept. 155,046 121,705 33,341 Sept. 6.872.044 89.846 6.832.648 98.7 Oct. 175,630 135,798 39.832 Oct. 7.245.659 69.909 7.315.589 100.8 Nov. 164,114 126,900 37,214 Nov. 6.977.457 38.614 7.036,691 100.1 Dec. 158,725 125,569 33,156 Total 7.301,314 664,341 75,985,475 88.9 195		49 419 7 449 544	47.1			
Mar. 7.688.877 85.668 7.169.448 98.5 June 164,661 129,147 35,514 May 6.878,688 46.881 6.384,889 98.6 July 117,984 96,350 21,634 Juny 1.089,518 17.491 1.197,699 18.2 Aug. 159,831 127,001 32,830 July 1.089,518 17.491 1.197,699 18.2 Sept. 155,046 121,705 33,341 Aug. 5,160,689 41,648 6,182,117 70.8 Sept. 155,046 121,705 33,341 0ct. 72,245,650 69,909 7.315,559 100.8 Nov. 164,114 126,900 37,214 Nov. 6,977,457 58,614 7,334,584 101.0 Dec. 158,725 125,569 33,156 Total 7,301,134 664,341 75,965,475 88.9 Total 1,931,987 1,512,290 416,697 1957 1957 1957 1957 1957 1957 1957 19						
Apr. 6.86.83 62,766 6.264.639 98.6 July 117,984 96,350 21,634 June 6.876,085 45,881 6.326,482 96.8 July 117,983 127,001 32,830 July 1,089,518 17,491 1,107,099 15.2 Sept. 155,046 121,705 33,341 Aug. 5,100,689 41,648 5,142,317 70.8 Sept. 155,046 121,705 33,341 Sept. 6,878,046 89,584 6,892,648 98.7 Oct. 175,630 135,798 39,832 Oct. 7,246,830 69,909 7,315,559 100.8 Nov. 164,114 126,900 37,214 Nov. 6,977,457 58,614 7,036,091 100.1 Dec. 158,725 125,569 33,156 Total 75,301,134 664,341 75,985,475 88.9 1057 Jan. 7,209,547 72,826 72,826,373 98.8 1957 Jan. 7,209,547 72,826 72,826,879 98.3 Feb. 6,596,133 61,973 6,658,106 100.0 Mar. 7,179,100 67,779 7,246,879 98.3 Feb. 154,932 121,667 33,265 May 6,878,881 65,566 6,945,447 94.2 Apr. 66,593,326 66,266 6,695,547 94.2 Apr. 162,498 124,549 37,949 June 6,593,326 66,266 6,666,545,47 94.2 Apr. 162,498 124,549 37,949 June 6,593,326 66,266 6,666,565,100 93,33 Pr. 162,498 124,549 37,949						
June 6.887.608 46.881 6.434.889 81.6 Aug. 159,831 127,001 32,830 July 1.088,518 17.491 1.107.609 18.2 Sept. 1.50,046 121,705 33,341 Aug. 5.160,689 41,648 6.142,317 70.8 Sept. 1.55,046 121,705 33,341 Sept. 6.878,046 49,584 6.932,648 88.7 Oct. 175,630 135,798 39,832 Oct. 7.246,735 68,841 7.036,691 100.1 Dec. 158,725 125,569 37,156 Dec. 7.280,743 66,341 75,985,475 88.9 1957 72.82 88.9 88.9 <th< td=""><td>Apr 6,860,833</td><td>63,760 6,924,563</td><td>98.6</td><td></td><td></td><td></td></th<>	Apr 6,860,833	63,760 6,924,563	98.6			
July 1,089,518 17,491 1,107,609 15.2 Sept. 155,046 121,705 33,341 Aug. 5,100,669 41,648 5,142,317 70.8 Sept. 155,046 121,705 33,341 Sept. 6,878,064 89,584 6,932,648 98.7 Oct. 175,630 135,798 39,832 Oct. 7,245,650 69,909 7,315,559 100.8 Nov. 164,114 126,900 37,214 Nov. 6,977,457 38,643 17,334,584 100.1 Dec. 158,725 125,569 33,156 Dec. 7,230,134 66,341 75,995,475 88.9 Total 1,931,987 1,512,290 416,697 Jan. 7,209,547 72,826 7,282,373 98.8 1957 Jan. 169,240 133,826 35,414 Feb. 6,596,133 61,973 6,658,106 100.0 Feb. 154,932 121,667 32,267 Mar. 7,179,100 67,779 7,246,879		47,840 4,920,942				
Aug. 6,160,669 41,648 6,142,217 70.8 Sept. 155,040 121,703 33,341 Sept. 6,878,046 89,896 6,932,648 98.7 Oct. 175,630 135,798 39,832 Oct. 7,245,650 69,909 7,315,559 100.8 Nov. 164,114 126,900 37,214 Nov. 7,268,725 125,569 33,156 Total 75,301,134 664,341 75,965,475 88.9 Total 1,931,987 1,512,290 416,697 JBST 72.09,547 72,826 72,822,373 98.8 1957 33,826 35,414 Feb. 6,586,133 6,658,106 100.0 154,932 121,667 33,265 Mar. 7,179,100 67,779 7,246,879 98.3 Feb. 154,932 121,667 33,265 Apr. 66,130,502 66,266 66,566 6,454,447 94.2 Apr. 160,054 124,416 35,638 May 6,893,881		46,981 6,434,589	91.6	Aug 159,831		
Sept. .6,878,064 89,884 6,982,648 98.7 Oct. .175,630 135,798 39,832 Oct. .7,245,659 69,909 7,315,559 100.8 Nov. .164,114 126,900 37,214 Nov. .6,274,57 58,614 7,334,534 101.0 Dec. .158,725 125,569 33,156 Dec. .7,286,743 68,341 7,345,534 101.0 Total .1,331,987 1,512,290 416,697 Jan. .7,209,547 72,826 7,282,373 98.8 1957 Jan. .169,240 133,826 35,414 Feb. .6,596,133 61,973 6,658,106 100.0 Feb. .154,932 121,667 32,265 Apr. -6,810,102 60,784 6870,886 96.3 Mar. .160,054 124,416 35,638 May -6,893,326 66,296,547 94.2 Apr. .162,498 124,549 37,949				Sept 155,046	121,705	33,341
Oct. 7.245.650 69.909 7.315.559 100.8 Nov. 164,114 126,900 37,214 Nov. 6.977.457 58.614 7.036.091 100.1 Dec. 158,725 125,569 33,156 Total 7.301.134 684.341 7.596.475 88.9 Total 1,931,987 1,512,290 416,697 Jan. 7.209.547 72.826 7.282.373 98.8 100.0 169,73 169,240 133,826 35,414 Feb. 6.586.136 6.076 6.676,810 96.3 Feb. 154,932 121,667 33,265 Apr. 6.810.102 60.784 66.266 6.694,547 94.2 Apr. 160,054 124,416 35,638 May 6.879.881 66.266 66.595,129 93.3 Apr. 162,498 124,549 37,949				Oct 175.630	135,798	39.832
Nov. 6.977.457 58.614 7.036.091 100.1 Dec. 158,725 125,569 33,156 Total .72.68.743 68.431 75,965.475 88.9 Total .1,931,987 1,512,290 416,697 1957 Jan. .72.09.547 72.826 .7282.373 98.8 Jan. .169,240 133,826 35,414 Feb. .6,596.133 61,973 .6,656,106 100.0 Jan. .169,240 133,826 35,414 Mar. .7.179,100 67,779 .72.46.879 98.3 Feb. .154,932 121,667 33,265 Apr. .6.810,102 60,784 6870.886 96.3 Mar. .160,054 124,416 35,638 May .6.879.881 65,566 .694,5447 94.2 Apr. .162,498 124,549 37,949 June .6.593,329 .66,569,592 93.3 .7949 .7949 .7949 .7949						37.214
Total 75,301,134 664,341 75,985,475 88.9 Total 1,931,987 1,512,290 416,697 1957 Jan. 7,209,547 72,826 7,282,373 98.8 Feb. 6,596,133 61,973 6,658,106 100,0 4 100,0 4 100,0 4 100,0 4 100,0 67,779 7,246,879 98.3 Feb. 154,932 121,667 33,265 Apr. 6,810,102 60,784 6,879,881 65,566 6,945,447 94.2 Apr. 162,498 124,549 37,949 June 6,593,326 66,266 6,666 6,595,329 93,3		58,614 7,036,091		- 100 000		
1957 Jan. 7.208.547 72.826 7.282.373 98.8 Feb. 6.596.133 61.973 6.658.106 100.0 Mar. 7.179.100 67.779 7.246.879 98.3 Feb. 154.932 121,667 33.265 Apr. 6.810.102 60.784 6870.886 96.3 May 6.879.881 65.566 6.945.447 94.2 June 6.593.326 66.266 66.266 6.6945.447 94.2 June 6.593.326 66.266 6.666 6.659.592 93.3	Dec 7,268,743					
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Feb. 6.596.133 61.973 6.658.106 100.0 Jan. 109.240 133,026 33,246 Apr. 6.810.102 60.784 6.870.886 96.3 Mar. 160.054 124,416 35,638 May 6.879.881 65.566 6.945.447 94.2 Apr. 162,498 124,549 37,949 June 6.593.326 66.266 6.659.532 93.3 Apr. 162,498 124,549 37,949		72 826 7 282 373	988		100 000	05 414
Mar. 7.179,100 67,779 7.246,879 98.3 Feb. 154,932 121,667 33,265 Apr. 6.810,102 60,784 6.870,886 96.3 Mar. 160,054 124,416 35,638 May 6.879,881 65,566 6.945,447 94.2 Apr. 162,498 124,549 37,949 June 6.593,326 66,266 6.659,592 93.3 162,498 124,549 37,949						
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May 6.879.881 65,566 6,945,447 94.2 Apr 162,498 124,549 37,949 June 6.593,326 66,266 6.659,592 93.3 Apr 162,498 124,549 37,949		60.784 6.870.886	96.3	Mar 160,054		35,638
June 6.593,326 66,266 6.659,592 93.3					124,549	
eury 0,023,301 00,031 0,091,932 90.8 Many 102,010 120,101 00,111						
	oury 0,025,901	00,031 6,091,932	8.06	101,010	220,201	00,111

Galvanized Sheet Shipments

(American		Iron & S (Met Ton		itute)
	1954	1955	1956	1957
Jan.	169,086	211,101	269,464	235,902
Feb.	167,433	199,408	272,997	205,048
Mar.	180,198	238,649	291,193	206,836
Apr.	203,312	239,001	266,728	198,585
May	201,671	235.962	272,741	206,657
June	200,456	246,940	279,058	239,037
July	214,349	205,211		167,247
Aug.	207,113	241,863	276,048	
Sept.	209,765	269,020	256.803	
Oct.	209,498	260,010	278,637	
Nov.	195,190	255,692	255,135	
Dec.	205,561	261,640	239,173	

Tot. 2,362,632 2,864,497 2,957,991 · Combined with August figures.

SHIPMENTS OF TIN-TERNEPLATE (American Iron & Steel Institute)

Steel Castings Shipments (Bureau of Census)

	Dipped	Electrolytic		
1956	1957	1956	1957	
81,034	88,174	402,627	492,502	
77.877	63,040	404,193	407,008	
133,257	113.593	598,129	618,827	
138,556	130,037	554.575	664,590	
70.282	34.292	354,204	278,769	
			321.584	
			380.815	
81.005	,	408,903	,	
72,400				
92,394				
68,385		288,896		
950.070	-	4.615.068		
	81,034 77,877 133,257 138,556 70,282 84,371 81,005 72,400 92,394 70,510 68,385 950,070	81,034 88,174 77,877 63,040 133,257 113,596 130,037 70,282 34,292 84,371 32,783 81,005 72,400 92,394 70,510 68,385 950,070	81,034 88,174 402,627 777,877 63,040 404,193 133,257 113,593 598,129 138,556 130,037 554,575 70,282 34,292 354,204 84,371 32,783 466,060 39,234 408,903 72,400 396,588 92,394 415,451 70,510 325,408 68,385 288,896 950,070 4,615,068	

Steel Ingot Operations

((Percentage	of	Capacity	as	Reported
			by		

,	rerc	entage	or C	apacity by	as E	teported
	Am	erican	Iron	& Steel	Inst	itute)
V	Veek					
E	Begin	ning	1954	1955	195	6 1957
J	an.	7	75.4	81.2	97.	6 98.4
J	an.	14	74.3	83.2	98.	
J	an.	21			99.	
	an.	28	75.6		100.	
F	eb.	4	74.4		99.	
F	eb.	11	74.4		99.	
F	eb.	18	74.6	89.1	98.	
F	eb.				98.	
N	far.	4			99.	
		11		92.9	100.	
					100.	
	Mar.			93.7	99.	
A	pr.	1		94.4	99.	
	pr.	8			97.	
	-	15		94.6	100.	
A	pr.	22	68.6	94.6	100.	
	-	29		95.6	100.	5 87.0
N	Лау	6	69.4	96.6	96.	4 86.7
	Лау	13	70.9	97.2	95.	2 84.2
N	Лау	20	71.8	96.9	95.	3 86.4
		27	71.2	96.4	97.	3 88.0
		3	70.2	95.8	96.	3 87.5
		10		94.7	96.	
J	une	17	72.3	96.0	93.	4 85.2
		24		95.0	93.	0 84.0
		1		71.1	84.	9 78.5
J	uly	8			12.	
J	uly	15			12.	
J	uly	22	65.3	91.0	14.	8 79.4
J	uly	29	64.2	90.7	17.0	79.4
A	lug.	5	64.0	86.9	16.	9 79.8
A	lug.	12	64.0	89.4	57.	5 80.6
A	lug.	19	61.8	90.2	87.	
A	lug.	26	63.5	90.6	95.8	
	Sept.			93.4	97.0	
		9		93.8	98.	
S	ept.	16	66.3	95.7	100.6	
		23		96.1	100.0	
-	ept.	30	70.4	97.0	101.0	
	Oct.	7	71.0	96.7	101.8	
	oct.	14	72.8	96.5	100.9	
	et.	21	73.6	98.9	101.4	
C	oct.	28	74.5	100.0	101.2	
N	lov.	4	76.4	99.4	101.3	
N	lov.	11	77.2	99.6	100.6	
N	lov.	18	79.3	99.2	100.2	
N	lov.	25	80.3	100.1	100.1	
D	ec.	2	81.4	97.6	101.1	
D	ec.	9	82.5	100.1	101.3	
D	ec.	16	81.5	100.3	102.0	
D	ec.	23		96.9	94.3	
	ec.	30	77.6	95.7	97.3	
					-	

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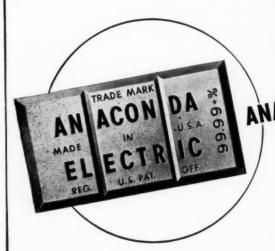
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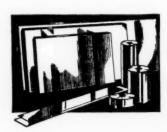


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